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SPHERICAL BASIS

OF

ASTROLOGY.

TABLE OF HOUSES

FOR

LATITUDES 22° TO 60°



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THE
SPHERICAL BASIS OF ASTROLOGY

BEING

A COMPREHENSIVE
TABLE OF HOUSES

FOR

LATITUDES 22° TO 60°

WITH

*RATIONAL VIEWS AND SUGGESTIONS, EXPLANATION AND INSTRUCTIONS
CORRECTION OF WRONG METHODS, AND AUXILIARY TABLES*

BY

JOSEPH G. DALTON

SEVENTH EDITION

Incorporating Tables for Latitudes to
60°, by the courtesy of the publishers
of Raphael's TABLES OF HOUSES

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VIEWS AND SUGGESTIONS.

There appears to be a wide and increasing interest in regard to Astrology in this country, and perhaps there are some who wish to study it with as much exactness and thoroughness as the peculiar subject is capable of, in its principal branch the doctrine of nativities. If such are very few as yet, the spirit of this age, now inclining to submit the occult and elusive to scientific scrutiny, is likely to breed them ere long. The present writer has studied it, in quite a private way, from a rational point of view and with careful induction, for many years, taking its fundamental ideas as probable hypotheses and using a strict mathematical method according to the best works on spherical astronomy, with the intent particularly of testing with scientific caution what correspondence there is between "arcs of direction" and the events of a person's life, when the data are known to be correct. As geometrical laws shape everything, this is the part that can probably be made nearly an exact science. The rest of it — after rejecting the mouldy old nonsense and jargon, the figments and lies of the books — is mostly deductions from general and ambiguous symbols which yield little definite meaning to the intellect, though often read wonderfully by some persons who have the fine divining faculty; but this insight, however real in its way, is a raw poetry not science, and is unreliable, especially as to times of events. I have reached numerous confident conclusions on the subject by a long inquisitorial search. Some are negative ones, indeed, yet valuable; but many are drawn from positive proof of close accord between planetary movements and personal events, disclosing to view the main points and lines in the geometrical plan of life, though giving no clear picture of anything.

Astrology is far from being a baseless and refuted pretension, as the cyclopedias and scientists, with "orthodox mental strut," generally assert. They condemn it without a trial, without examination and experiment, confounding its essential truth with the error and folly that corrupt it. Genteel scholarship and formal intellects are naturally content to abide in ignorance and aversion concerning these ancient ideas of "spherical predominance," which the unsophisticated multitude treat with innate sympathy, and which many great poets and thinkers have entertained as easily credible

in a universe so full of wonders and mystery. Its coarser aspect is conspicuous in the salable books and almanacs of the elusory charlatans who commonly lurk concealed under the name of some angel or star to prey upon the credulous, and in whose hands it has made no progress for hundreds of years. They "hitch their wagon to a star," but remain in the mire and the mist. As practised for gain and gammon, Astrology is eternal truth in distress and demoralized, disgraced by its friends, despised by its foes, and thus ever in deserved ill-repute with sensible people. It was in the same dismal plight in Bacon's time, who said that it "is so full of superstition that scarce anything sound can be discovered in it, though we judge it should rather be purged than absolutely rejected." Bacon also looked for what he calls "*Astronomia viva*, a living astronomy, an astronomy that should set forth the nature, the motion, and the influences of the heavenly bodies, as they really are." Here is the hint of a wise ideal which, after three centuries, modern astronomy, in all its extreme excellence of material means, does not fulfil. It is a vast and complex growth of declared exact science, but all mechanical and soulless, empty of divine reason and human meaning. It has been wanting in the very precision which is its chief pride. That the tabular positions of planets were erroneous, and getting more and more wide of their observed places, was seldom mentioned except in official documents. In 1882 Prof. Newcomb said, "the increasing discordance between theory and observation is a field which greatly needs to be investigated." The showy astronomy was mainly devoted to solar gas and meteors and exact places of millions of the minutest stars. Since then the American astronomers have perfected new tables of the planets.

Astrology is a curious and seductive rather than a useful study; yet is a legitimate subject for research, with the attraction of general interest, but has its own perplexities and hindrances like any other scientific inquiry. It needs an invigorating infusion of modern thought, students of the right kind to give intellectual respectability to its aims and methods; minds with the true soulful elevation and openness, "not regarding of any one's mocks," and able to emulate the patient and

severe sagacity that has reached the admirable results of the established sciences. It requires no high mathematical ability, but such as will be enamoured of much dry ciphering if it lead to a real advance by gradual steps. For the sake of such students, to furnish them a new and ample instrument, and to diminish their

liability to error, this volume is issued. Drink deep, or taste not, the Uranian cup of mystical science; the empty froth and dubious flavor are mostly on the surface. Tarry not in the dim region of fallible conjecture, but proceed to mathematic certainties.

Ars vera est, sed pauci artifices reperiuntur.

EXPLANATIONS AND INSTRUCTIONS.

WITH USEFUL TABLES.

The twelve astrological Houses are formed by trisecting each of the four natural divisions of the heavens made by the meridian and horizon. It is as if the eastern horizon were tilted up to $\frac{1}{3}$ and to $\frac{2}{3}$ the distance, and then down in like manner. This makes six equal sections on the east of the meridian, the others being directly opposite. The celestial equator is equally divided by these into arcs of 30° each; the ecliptic on account of its obliquity is unequally divided, hence the present Table which gives for each latitude the intersecting points of the ecliptic with the eastern horizon and those other great circles, to each degree of ecliptic longitude on the meridian and its proper sidereal time. It is the only general one of the kind ever made. The original MS. covers from 10° to 60° of latitude, but the limits here, 22° to 56° , include the whole civilized globe. Hitherto all such tables have been for some one latitude, and they but rudely serve within narrow bounds. Its usefulness therefore is very obvious in making a diagram of the heavens at a given date and locality to get the mundane positions of planets and stars for astrological purposes or any questions that require such a figure. An immense amount of laborious calculation has been necessary, and systematic method and the utmost care was used to insure its correctness. The ascendant, or first house, was strictly computed to the nearest tenth of a minute at a sufficient number of points (according to the more or less uniform variation), and then interpolated downward and across the page by second, third and often fourth differences, insuring general accuracy to the nearest minute. The other and minor houses were similarly fixed at many points to the nearest hundredth of a degree, and interpolated for accuracy to the nearest tenth. More than a thousand operations in trigonometry, by seven or ten logarithms each, were performed, between which to fill in by the quicker but correct process of interpolation. The ecliptic obliquity used was $23^\circ 27' 15''$, its mean value in 1885. On account of the very slow decrease in this angle, I find that for dates at least sixty years before and after that year the Table will hardly err anywhere more than $1'$ on the horizon, and this mostly in the highest latitudes. It will serve still for a century more either way and be but a trifle wrong sometimes. The formula used in the computa-

tions was adapted from that for getting the longitude of "the nonagesimal," or ecliptic point 90° from the horizon, as given in the appendix to Bowditch's Navigator, Problem IV (old editions). It is substantially the same as that by which the ordinary tables are made for single latitudes; but I have examined many of these and find them erroneous in several ways,* and they betray a defective method in not showing the exact recurrence of the series of differences and the consequent agreements of one quadrant with another. That the simple mathematical facts of these conformities appear in the present Table is a means of *detecting any copying* from it, on pretence of original work, by that sort of persons who make the usual tables. These plainly show the incapacity of the computers, who do more than is needful, and worse than is endurable.

The astrological books are so erroneous and various in the rules for making a figure, that it is well to have here some instructions and cautions for getting the true sidereal time in any case, with which to use this Table. Hardly a single one of those books mentions the correction to be applied for distance in longitude from Greenwich! and most of them ignore also the correction of mean time to sidereal. Neglect of the first one makes an error of $47'$ at Boston and of $1^m 20'$ on the Pacific coast, which in arc equals $12'$ to $20'$, a difference of four months in directions to the "angles." To neglect the other correction may cause a further error of $57'$ —about a whole year. I give the usual table here for making these corrections, and the entire process is as follows:

To the Greenwich sidereal time at the previous mean noon add the correction for longitude of the place, taken from table A, and you have the sidereal time of the same noon at the given place. (East of Greenwich this correction is *minus*.) To this add the interval between that noon and the given time, and by the same table its correction. The sum is the sidereal time or right ascension of the midheaven for the given place and time.

It is to enable students to be accurate, when necessary, that these details of precision are given, as otherwise they must be gathered from several sources. Of course

* Some give the sidereal time to the nearest minute only, which is often an error of seven minutes of arc, to start with!

they can be omitted in making a rough figure for general consideration, and then the rule is: Gr. sid. t. at previous noon + time from same local noon = approx. sid. t. required. Add 2 or 3 minutes, and it will be nearer right on the average.

There is, however, of late a liability to fall into much larger errors. On Nov. 18, 1883, Standard Time was adopted in this country, and time-pieces no longer indicate mean solar time, though they measure it. Any given standard time must therefore first be corrected to mean time. Boston, for example, is in the Eastern Division, the central meridian of which is five hours west longitude, and the new time throughout that division is fixed at five hours earlier than Greenwich time. As Boston is east of the centre, with longitude or time-difference of $4^h 44^m 15^s$, its standard time is too slow by $15^m 45^s$. Therefore, add that amount to get the mean time. At New York it is too slow by $3^m 58^s$. Philadelphia is in the same division, but a little *west* of the centre, in longitude $5^h 0^m 36^s$; hence standard time there is 36^s too *fast*. So of any place in either of the five hourly divisions: the long.-diff. of cent. merid. and place = corr. to mean t., and is *plus* if the place be east, and *minus* if west, of the meridian. This correction must be made with care, as it amounts to about *half an hour* near the border of a division, and if applied wrongly may make an error of double that! Practically there are many exceptions and uncertainties in the use of our standard time, also liabilities to large error for such places as many in Maine, Ohio and Pennsylvania, where it was not fully adopted until several years after. In "The Pathfinder Railway Guide," of Boston, there *has been* much information as to its local use, with a map.*

Now with the sidereal time and the *geographic*, or the *geocentric*, latitude (as you may think proper), the Table is used like any table of double entry. Sid. T., with its equivalent arc,† to each degree on the meridian or 10th house, heads each main column. "II" below indicates the other houses, and on the side is the Latitude. Intermediate values are got generally by simple proportion between the two nearest ones, in doing which between columns it is easier to use the arc than the time. Time can be changed into arc by table C. To save needless repetition many figures and decimal points are omitted where they are readily seen above. On each left-hand page a column is duplicated from the previous page to escape the awkwardness of reckoning between columns so situated.

* As to the various systems of standard time in foreign countries information is not easy to obtain; the astrologians know little of it and say nothing, for they always prefer to evade difficulties.

† The calculations were made from the exact R. A. in arc, but it is here given to the nearest tenth of a minute as best for getting proportional parts in the Table.

There is hardly any obvious use in having the minor houses so closely calculated, but it might be needed for some purposes, and their columns would not look well if they differed too much in that respect from the ascendant.

These Explanations, etc., are now much amended, 1903.

The geographical latitude is certainly not to be used for primary directions, for all such calculations as are affected by the earth's rotation will be wrong except when the equinoctial points are near the horizon. For those purposes, therefore, the latitude must be corrected for the spheroidal shape of the earth by table B, to convert it into the *geocentric* latitude by "the angle of the vertical," as astronomers do in computing eclipses, for which fact see the same chapter in Bowditch, before re-

| TABLE A. CORRECTION OF MEAN TO SIDEREAL TIME. | | | | | | | | | | TABLE B. CORRECTION OF LATI- TITUDE. Always minus. | | | | | |
|---|-----------------------|-------|---------------|-----------------------|------|---------------|-----------------------|-----|---------------|---|---|-------|------------------|-------|------------------|
| Mean time. | Cor- rection. + | | Mean time. | Cor- rection. + | | Mean time. | Cor- rection. + | | Mean time. | Cor- rection. + | | Lat. | Correc- tion. | Lat. | Correc- tion. |
| H. | M. | S. | M. | S. | M. | S. | S. | S. | S. | S. | S. | " | " | " | " |
| 1 | 0 | 9.86 | 1 | 0.16 | 31 | 5.09 | 1 | .00 | 31 | .09 | 22 | 8 8 | 41 | 11 37 | |
| 2 | 0 | 19.71 | 2 | 0.33 | 32 | 5.26 | 2 | .00 | 32 | .09 | 23 | 8 25 | 42 | 11 40 | |
| 3 | 0 | 29.57 | 3 | 0.49 | 33 | 5.42 | 3 | .01 | 33 | .09 | 24 | 8 42 | 43 | 11 42 | |
| 4 | 0 | 39.43 | 4 | 0.66 | 34 | 5.58 | 4 | .01 | 34 | .09 | 25 | 8 58 | 44 | 11 43 | |
| 5 | 0 | 49.28 | 5 | 0.82 | 35 | 5.75 | 5 | .01 | 35 | .10 | 26 | 9 14 | 45 | 11 44 | |
| 6 | 0 | 59.14 | 6 | 0.99 | 36 | 5.91 | 6 | .02 | 36 | .10 | 27 | 9 29 | 46 | 11 44 | |
| 7 | 1 | 9.00 | 7 | 1.15 | 37 | 6.08 | 7 | .02 | 37 | .10 | 28 | 9 43 | 47 | 11 43 | |
| 8 | 1 | 18.85 | 8 | 1.31 | 38 | 6.24 | 8 | .02 | 38 | .10 | 29 | 9 56 | 48 | 11 40 | |
| 9 | 1 | 28.71 | 9 | 1.48 | 39 | 6.41 | 9 | .02 | 39 | .11 | 30 | 10 9 | 49 | 11 38 | |
| 10 | 1 | 38.57 | 10 | 1.64 | 40 | 6.57 | 10 | .03 | 40 | .11 | 31 | 10 21 | 50 | 11 34 | |
| 11 | 1 | 48.42 | 11 | 1.81 | 41 | 6.73 | 11 | .03 | 41 | .11 | 32 | 10 32 | 51 | 11 29 | |
| 12 | 1 | 58.28 | 12 | 1.97 | 42 | 6.90 | 12 | .03 | 42 | .11 | 33 | 10 42 | 52 | 11 24 | |
| 13 | 2 | 8.13 | 13 | 2.14 | 43 | 7.06 | 13 | .04 | 43 | .12 | 34 | 10 52 | 53 | 11 17 | |
| 14 | 2 | 17.99 | 14 | 2.30 | 44 | 7.23 | 14 | .04 | 44 | .12 | 35 | 11 1 | 54 | 11 10 | |
| 15 | 2 | 27.85 | 15 | 2.46 | 45 | 7.39 | 15 | .04 | 45 | .12 | 36 | 11 9 | 55 | 11 2 | |
| 16 | 2 | 37.70 | 16 | 2.63 | 46 | 7.56 | 16 | .04 | 46 | .13 | 37 | 11 16 | 56 | 10 54 | |
| 17 | 2 | 47.56 | 17 | 2.79 | 47 | 7.72 | 17 | .05 | 47 | .13 | 38 | 11 23 | 57 | 10 44 | |
| 18 | 2 | 57.42 | 18 | 2.96 | 48 | 7.88 | 18 | .05 | 48 | .13 | 39 | 11 28 | 58 | 10 34 | |
| 19 | 3 | 7.27 | 19 | 3.12 | 49 | 8.05 | 19 | .05 | 49 | .13 | 40 | 11 31 | 59 | 10 23 | |
| 20 | 3 | 17.13 | 20 | 3.28 | 50 | 8.21 | 20 | .05 | 50 | .14 | 41 | 11 37 | 60 | 10 11 | |
| 21 | 3 | 26.99 | 21 | 3.45 | 51 | 8.38 | 21 | .06 | 51 | .14 | N. B. This table is newly calculated from the latest determination of the ellipticity, E, by the formula, tan geoc. lat. = (1-E) ^{1/2} tan lat. Loc. of (1-E) ^{1/2} is 9.9970351. | | | | |
| 22 | 3 | 36.84 | 22 | 3.61 | 52 | 8.54 | 22 | .06 | 52 | .14 | | | | | |
| 23 | 3 | 46.70 | 23 | 3.78 | 53 | 8.71 | 23 | .06 | 53 | .15 | | | | | |
| The sum of correct's will be taken to nearest second. | | | | 24 | 3.94 | 54 | 8.87 | 24 | .07 | 54 | .15 | | | | |
| | | | | 25 | 4.11 | 55 | 9.03 | 25 | .07 | 55 | .15 | | | | |
| | | | | 26 | 4.27 | 56 | 9.20 | 26 | .07 | 56 | .15 | | | | |
| | | | | 27 | 4.43 | 57 | 9.36 | 27 | .07 | 57 | .16 | | | | |
| | | | | 28 | 4.60 | 58 | 9.53 | 28 | .08 | 58 | .16 | | | | |
| | | | | 29 | 4.76 | 59 | 9.69 | 29 | .08 | 59 | .16 | | | | |
| | | | | 30 | 4.93 | 60 | 9.86 | 30 | .08 | 60 | .16 | | | | |
| | | | | | | | | | | | | | | | |

ferred to, and the reductions of latitude in the British and the American Ephemeris with the list of observatories. This correction often alters very much all semi-ares, especially in high latitudes; hence a main cause of the monstrous errors constantly made by those who attempt to calculate primary directions is their use of the *geographic* latitude.

The matter of the "poles" of the minor houses is unsound in the astrological books, and their tables of them are wrong. It should be understood, therefore, that those houses in the present Table are calculated by a strictly correct method, which for some parts in high latitudes gives results that differ, sometimes more than half a degree, from those got by using the common table of poles. I found it necessary to examine the whole question thoroughly. These poles are angles analogous to the pole of a place, its latitude, and while

the ascendant is obtained directly from that, the other houses can be had precisely only by a trial-and-error process from a mean or approximate pole to begin with, because the poles are factors in the operation that depend upon the very thing sought for. Now the usual table of poles is not made for an average case, but for the extreme one, that is when $\varpi 0$ or $\vartheta 0$ is on the cusp — the blunder of some one about a century ago, and has been blindly copied ever since. The errors therein are large for high latitudes. The proper average poles are a mean between those of $\varphi 0$ on the cusp of a house, and those when $\varpi 0$ is there. I find that a near average is had when $8\ 22$, or any point of same declination, is on the cusps. The table D below is made accordingly. The formula for 11th and 3d houses is $\tan \text{ pole} = \frac{\sin \frac{1}{2} \text{ asc. diff.}}{\tan \text{ decl.}}$. For the 12th and 2d, $\frac{2}{3}$ is put instead of $\frac{1}{2}$. Ecliptic obliquity is taken at $23^\circ 27' 15''$, but its variation for many years has little effect. This table will give in all cases nearly true results* directly by the usual formula, especially if account be made of 2d differences between the tabular latitudes.

| TABLE C. TO CONVERT SIDEREAL TIME INTO R. A. IN ARC. | | | | | | TABLE D. APPROXIMATE POLES. | | | |
|--|------|----------|--------|----------|--------|--------------------------------|-------------------|-------------------|--|
| Time | Arc. | Time | Arc. | Time | Arc. | Lat. | 11th and 3d H. | 12th and 2d H. | |
| H. | ° | M. S. | ° ' | M. S. | ° ' | ° | ° | ° | |
| 1 | 15 | 1 | 0 15 | 31 | 7 45 | 10 | 3 21.9 | 6 42.4 | |
| 2 | 30 | 2 | 0 30 | 32 | 8 0 | 13 | 4 24.3 | 8 45.3 | |
| 3 | 45 | 3 | 0 45 | 33 | 8 15 | 16 | 5 28.0 | 10 49.8 | |
| 4 | 60 | 4 | 1 0 | 34 | 8 30 | 19 | 6 33.5 | 12 56.5 | |
| 5 | 75 | 5 | 1 15 | 35 | 8 45 | 22 | 7 41.4 | 15 5.9 | |
| 6 | 90 | 6 | 1 30 | 36 | 9 0 | 25 | 8 52.0 | 17 18.3 | |
| 7 | 105 | 7 | 1 45 | 37 | 9 15 | 28 | 10 5.8 | 19 34.2 | |
| 8 | 120 | 8 | 2 0 | 38 | 9 30 | 31 | 11 23.5 | 21 54.1 | |
| 9 | 135 | 9 | 2 15 | 39 | 9 45 | 34 | 12 45.8 | 24 18.7 | |
| 10 | 150 | 10 | 2 30 | 40 | 10 0 | 37 | 14 13.7 | 26 48.6 | |
| 11 | 165 | 11 | 2 45 | 41 | 10 15 | 40 | 15 48.1 | 29 24.1 | |
| 12 | 180 | 12 | 3 0 | 42 | 10 30 | 42 | 16 55.1 | 31 11.3 | |
| 13 | 195 | 13 | 3 15 | 43 | 10 45 | 44 | 18 6.3 | 33 1.7 | |
| 14 | 210 | 14 | 3 30 | 44 | 11 0 | 46 | 19 22.1 | 34 55.5 | |
| 15 | 225 | 15 | 3 45 | 45 | 11 15 | 48 | 20 42.8 | 36 52.8 | |
| 16 | 240 | 16 | 4 0 | 46 | 11 30 | 50 | 22 9.0 | 38 53.6 | |
| 17 | 255 | 17 | 4 15 | 47 | 11 45 | 51 | 22 54.6 | 39 55.5 | |
| 18 | 270 | 18 | 4 30 | 48 | 12 0 | 52 | 23 41.9 | 40 58.6 | |
| 19 | 285 | 19 | 4 45 | 49 | 12 15 | 53 | 24 31.2 | 42 2.8 | |
| 20 | 300 | 20 | 5 0 | 50 | 12 30 | 54 | 25 22.6 | 43 8.1 | |
| 21 | 315 | 21 | 5 15 | 51 | 12 45 | 55 | 26 16.1 | 44 14.5 | |
| 22 | 330 | 22 | 5 30 | 52 | 13 0 | 56 | 27 12.0 | 45 22.1 | |
| 23 | 345 | 23 | 5 45 | 53 | 13 15 | 57 | 28 10.5 | 46 31.0 | |
| 24 | 360 | 24 | 6 0 | 54 | 13 30 | 58 | 29 11.8 | 47 41.2 | |
| | | 25 | 6 15 | 55 | 13 45 | 59 | 30 16.3 | 48 52.7 | |
| | | 26 | 6 30 | 56 | 14 0 | 60 | 31 24.1 | 50 5.7 | |
| | | 27 | 6 45 | 57 | 14 15 | | | | |
| | | 28 | 7 0 | 58 | 14 30 | | | | |
| | | 29 | 7 15 | 59 | 14 45 | | | | |
| | | 30 | 7 30 | 60 | 15 0 | | | | |

This table is merely to multiply by 15, as the units of time are that larger than those of arc.

This table is only for use in making figures without a table of houses, or to form such a one.

OF FIGURES FOR SOUTH LATITUDE.

Though the Table, as it stands, is for North latitudes only, it is equally and easily available for Southern ones, as follows: Obtain the R. A. and longitude of the mid-heaven as usual; then, instead of getting the other houses from same page, add 180° , and in *that* part of the Table, with the latitude, find the values for those houses, but *substitute the opposite signs* for the ones found there.*

Make the figure with ascendant on the left as usual. To reverse it, though correct in idea, causes endless confusion to one accustomed to the common position. Only bear in mind that the equator and zodiacal ring above the earth are now behind you, to the North. In calculations from a Southern figure the only change is that the plus-or-minus rule for ascensional difference is reversed.

If the geographical latitude be proper for figures, then the English tables of houses are tolerably correct except some inaccuracies in making, and by taking ecliptic obliquity at $23^\circ 28'$, its amount more than a century ago. But the whole system of primary direction has been confused and falsified owing to ignorance of that essential factor, the Geocentric latitude. These pages rectify all that and provide means for correct figures at any point in two wide belts around the world, at any date for about two centuries before or after our assumed Obliquity of 1885.

Of course there can be no really scientific and thorough treatment of nativities unless the factors for all operations are complete and correct. The present work is "well calculated" to facilitate that; and our "Sixteen Principal Stars" repairs many glaring omissions in all writers on the subject.

The working of nativities has always been utterly chaotic, and is worse than ever now that they falsely equate arcs by that vain scheme of *a degree for a year*. It can never be otherwise without the full astronomical basis and a right mathematical method, in place of the scant system and excessive error of the sordid Sidrophels who debase the real astrology by their confusions and deceit, and whose spurious teaching is the worst obstacle to the development of what exact science in it is possible. *O curvæ animæ, et mathesis inanis.*

* This very necessary problem is left out of all the old books, and recent writers have mostly ignored or befogged it.

* The test of exactness in such point is, that $\frac{1}{2}$ (or $\frac{2}{3}$) its semi-arc should equal its meridian distance by right ascension.

COMPREHENSIVE TABLE OF HOUSES

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

2

UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 0 0 0 } γ ARC 0° 0' 0 } 0° | | | | | | H. M. S. 0 3 40 } γ 1° 0° 55' 0 } 1° | | | | | | H. M. S. 0 7 20 } γ 2° 1° 50' 1 } 2° | | | | | | H. M. S. 0 11 1 } γ 3° 2° 45' 2 } 3° | | | | | | H. M. S. 0 14 41 } γ 4° 3° 40' 2 } 4° | | | | | | H. M. S. 0 18 21 } γ 5° 4° 35' 3 } 5° | | | | | |
|--|------|------|-------|------|------|---|------|-------|------|-----|------|---|-------|------|-----|------|------|---|------|-----|------|------|-------|--|-----|--------|-------|-------|------|--|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | 8 | □ | ☌ | ☉ | ☿ | 8 | □ | ☌ | ☉ | ☿ | 8 | □ | ☌ | ☉ | ☿ | 8 | □ | ☌ | ☉ | ☿ | 8 | □ | ☌ | ☉ | ☿ | 8 | □ | ☌ | ☉ | ☿ | 8 | □ | ☌ | ☉ | ☿ |
| 23 | 4.0 | 7.9 | 9 8 | 3.2 | 29.4 | 5.0 | 8.8 | 9 57 | 4.0 | 0.3 | 6.0 | 9.7 | 10 46 | 4.8 | 1.3 | 7.0 | 10.6 | 11 35 | 5.7 | 2.2 | 8.0 | 11.5 | 12 24 | 6.5 | 3.1 | 9.0 | 12.4 | 13 13 | 7.3 | 4.1 | | | | | |
| 24 | 1 | 8.2 | 9 35 | 4 | 5 | 1 | 9.1 | 10 24 | 2 | 4 | 1 | 10.0 | 11 13 | 5.1 | 4 | 1 | 9 12 | 2 | 9 | 3 | 1 | 8 12 | 51 | 7 | 2 | 1 | 7 13 | 40 | 6 | 1 | | | | | |
| 25 | 2 | 6 10 | 3 | 7 | 6 | 2 | 5 10 | 52 | 5 | 5 | 2 | 4 11 | 41 | 3 | 4 | 2 | 11.3 | 12 29 | 6.2 | 3 | 2 | 12.2 | 13 18 | 7.0 | 3 | 2 | 13.1 | 14 7 | 8 | 2 | | | | | |
| 26 | 3 | 9 10 | 31 | 9 | 7 | 3 | 8 11 | 20 | 8 | 6 | 3 | 7 12 | 8 | 6 | 5 | 3 | 6 12 | 57 | 4 | 4 | 3 | 5 13 | 45 | 2 | 4 | 3 | 4 14 | 34 | 8.1 | 3 | | | | | |
| 27 | 4 | 9.2 | 10 59 | 4.2 | 29.8 | 4 | 10.1 | 11 48 | 5.0 | 0.7 | 4 | 11.0 | 12 36 | 8 | 6 | 4 | 9 13 | 25 | 7 | 5 | 4 | 8 14 | 13 | 5 | 3.4 | 4 | 7 15 | 1 | 3 | 4.3 | | | | | |
| 28 | 4.5 | 6 11 | 27 | 5 | 8 | 5.5 | 5 12 | 16 | 3 | 7 | 6.5 | 4 13 | 5 | 6.1 | 1.7 | 7.5 | 12.3 | 13 53 | 9 | 2.6 | 8.5 | 13.2 | 14 41 | 7 | 5 | 9.5 | 14.1 | 15 29 | 6 | 4 | | | | | |
| 29 | 6 | 9 11 | 56 | 7 | 9 | 6 | 8 12 | 45 | 6 | 8 | 7 | 7 13 | 34 | 4 | 7 | 7 | 6 14 | 22 | 7.2 | 7 | 7 | 5 15 | 10 | 8.0 | 6 | 7 | 4 15 | 57 | 8 | 5 | | | | | |
| 30 | 7 | 10.2 | 12 26 | 5.0 | ☿ | 7 | 11.1 | 13 15 | 8 | 9 | 8 | 12.1 | 14 3 | 6 | 8 | 8 | 13.0 | 14 51 | 5 | 7 | 8 | 9 15 | 38 | 3 | 7 | 8 | 8 16 | 26 | 9.1 | 6 | | | | | |
| 31 | 8 | 6 12 | 56 | 3 | 0.1 | 8 | 5 13 | 44 | 6.1 | 1.0 | 9 | 4 14 | 32 | 9 | 9 | 9 | 3 15 | 20 | 7 | 8 | 9 | 14.2 | 16 7 | 5 | 3.7 | 9 | 15.1 | 16 55 | 3 | 4.7 | | | | | |
| 32 | 4.9 | 11.0 | 13 26 | 6 | 2 | 6.0 | 9 14 | 15 | 4 | 1 | 7.0 | 8 15 | 2 | 7.2 | 2.0 | 8.0 | 7 15 | 50 | 8.0 | 9 | 9.0 | 6 16 | 37 | 8 | 8 | 10.0 | 5 17 | 25 | 6 | 7 | | | | | |
| 33 | 5.0 | 3 13 | 57 | 8 | 3 | 1 | 12.2 | 14 45 | 7 | 2 | 2 | 13.2 | 15 33 | 5 | 1 | 2 | 14.1 | 16 20 | 3 | 3.0 | 2 | 15.0 | 17 7 | 9.1 | 9 | 2 | 9 17 | 54 | 9 | 8 | | | | | |
| 34 | 2 | 7 14 | 29 | 6.1 | 4 | 2 | 6 15 | 17 | 9 | 3 | 3 | 6 16 | 4 | 8 | 2 | 3 | 5 16 | 51 | 5 | 1 | 3 | 4 17 | 38 | 3 | 4.0 | 3 | 16.3 | 18 25 | 10.1 | 9 | | | | | |
| 35 | 3 | 12.1 | 15 1 | 4 | 5 | 4 | 13.0 | 15 49 | 7.2 | 4 | 4 | 14.0 | 16 36 | 8.0 | 3 | 5 | 9 17 | 22 | 8 | 2 | 5 | 8 18 | 9 | 6 | 1 | 5 | 7 18 | 56 | 4 | 5.0 | | | | | |
| 36 | 4 | 5 15 | 34 | 7 | 0.6 | 6.5 | 4 16 | 21 | 5 | 1.5 | 7.6 | 4 17 | 8 | 3 | 4 | 8.6 | 15.3 | 17 54 | 9.1 | 3 | 9.6 | 16.2 | 18 41 | 9 | 2 | 6 17.1 | 19 27 | 7 | 1 | | | | | | |
| 37 | 5.6 | 13.0 | 16 8 | 7.0 | 7 | 7 | 9 16 | 54 | 8 | 6 | 7 | 9 17 | 41 | 6 | 2.5 | 8 | 8 18 | 27 | 4 | 4 | 8 | 7 19 | 13 | 10.2 | 3 | 8 | 6 19 | 59 | 11.0 | 2 | | | | | |
| 38 | 7 | 4 16 | 42 | 3 | 8 | 8 | 14.3 | 17 28 | 8.1 | 7 | 9 | 15.3 | 18 14 | 9 | 6 | 9 | 16.2 | 19 0 | 7 | 3.5 | 9 | 17.1 | 19 46 | 5 | 4.4 | 11.0 | 18.0 | 20 32 | 3 | 2 | | | | | |
| 39 | 9 | 9 17 | 16 | 7 | 9 | 7.0 | 8 18 | 2 | 4 | 8 | 8.1 | 8 18 | 48 | 9.2 | 7 | 9.1 | 7 19 | 34 | 10.0 | 6 | 10.1 | 6 20 | 20 | 8 | 4 | 1 | 5 21 | 5 | 6 | 5.3 | | | | | |
| 40 | 6.1 | 14.4 | 17 52 | 8.0 | 1.0 | 1 | 15.3 | 18 37 | 7 | 9 | 2 | 16.3 | 19 23 | 5 | 8 | 3 | 17.2 | 20 8 | 3 | 7 | 3 | 18.1 | 20 54 | 11.0 | 5 | 3 | 19.0 | 21 39 | 8 | 4 | | | | | |
| 41 | 3 | 9 18 | 28 | 3 | 1 | 3 | 8 19 | 13 | 9.0 | 2.0 | 4 | 8 19 | 59 | 9 | 9 | 4 | 7 20 | 44 | 6 | 8 | 5 | 6 21 | 29 | 3 | 6 | 5 | 5 22 | 14 | 12.1 | 5 | | | | | |
| 42 | 4 | 15.4 | 19 5 | 7 | 2 | 4 | 16.3 | 19 50 | 3 | 1 | 6 | 17.3 | 20 35 | 10.2 | 3.0 | 6 | 18.2 | 21 20 | 11.0 | 9 | 7 | 19.1 | 22 4 | 6 | 4.7 | 7 | 20.0 | 22 49 | 4 | 6 | | | | | |
| 43 | 6 | 9 19 | 43 | 9.0 | 4 | 6 | 9 20 | 28 | 7 | 2 | 8 | 8 21 | 12 | 5 | 1 | 8 | 7 21 | 56 | 3 | 4.0 | 9 | 6 22 | 41 | 12.0 | 8 | 9 | 5 23 | 25 | 7 | 5.7 | | | | | |
| 44 | 8 | 16.5 | 20 22 | 3 | 5 | 8 | 17.4 | 21 6 | 10.0 | 4 | 9 | 18.4 | 21 50 | 9 | 2 | 10.0 | 19.3 | 22 34 | 6 | 1 | 11.1 | 20.2 | 23 18 | 3 | 9 | 12.1 | 21.1 | 24 2 | 13.1 | 8 | | | | | |
| 45 | 7.0 | 17.1 | 21 1 | 6 | 1.6 | 8.0 | 18.0 | 21 45 | 4 | 5 | 9.1 | 19.0 | 22 29 | 11.2 | 3 | 1 | 9 23 | 13 | 12.0 | 2 | 3 | 8 23 | 56 | 7 | 5.0 | 4 | 7 24 | 40 | 4 | 9 | | | | | |
| 46 | 2 | 7 21 | 42 | 10.0 | 7 | 2 | 6 22 | 26 | 8 | 2.6 | 3 | 6 23 | 9 | 5 | 3.4 | 3 | 20.5 | 23 52 | 3 | 3 | 4 | 21.4 | 24 35 | 13.0 | 1 | 6 | 22.3 | 25 19 | 8 | 6.0 | | | | | |
| 47 | 5 | 18.3 | 22 24 | 4 | 8 | 4 | 19.3 | 23 7 | 11.1 | 7 | 5 | 20.3 | 23 50 | 8 | 5 | 5 | 21.1 | 24 33 | 6 | 4.4 | 6 | 22.0 | 25 16 | 4 | 2 | 8 | 9 25 | 58 | 14.1 | 1 | | | | | |
| 48 | 7 | 19.0 | 23 7 | 8 | 9 | 6 | 9 23 | 50 | 5 | 8 | 7 | 9 24 | 32 | 12.2 | 6 | 7 | 8 25 | 15 | 9 | 5 | 8 | 7 25 | 57 | 7 | 3 | 13.0 | 23.6 | 26 39 | 4 | 2 | | | | | |
| 49 | 9 | 7 23 | 51 | 11.2 | 2.1 | 8 | 20.6 | 24 33 | 9 | 9 | 9 | 21.6 | 25 15 | 6 | 7 | 9 | 22.5 | 25 57 | 13.3 | 6 | 12.0 | 23.4 | 26 39 | 14.1 | 4 | 2 | 24.3 | 27 20 | 8 | 3 | | | | | |
| 50 | 8.1 | 20.4 | 24 36 | 6 | 2 | 9.1 | 21.3 | 25 18 | 12.3 | 3.0 | 10.2 | 22.3 | 25 59 | 13.0 | 9 | 11.2 | 23.2 | 26 41 | 7 | 7 | 3 | 24.0 | 27 22 | 5 | 5.6 | 5 | 9 28 | 3 | 15.2 | 4 | | | | | |
| 51 | 3 | 21.2 | 25 22 | 12.0 | 3 | 4 | 22.1 | 26 4 | 7 | 2 | 5 | 23.0 | 26 45 | 4 | 4.0 | 5 | 9 27 | 26 | 14.1 | 9 | 6 | 7 28 | 6 | 9 | 7 | 7 | 25.6 | 28 47 | 6 | 6.5 | | | | | |
| 52 | 6 | 22.0 | 26 10 | 4 | 4 | 6 | 9 26 | 51 | 13.1 | 4 | 8 | 8 27 | 31 | 8 | 2 | 8 | 24.7 | 28 12 | 5 | 5.0 | 9 | 25.5 | 28 52 | 15.3 | 8 | 14.0 | 26.4 | 29 32 | 16.0 | 6 | | | | | |
| 53 | 9 | 9 26 | 59 | 8 | 6 | 9 | 23.7 | 27 40 | 5 | 5 | 11.1 | 24.6 | 28 20 | 14.2 | 3 | 12.1 | 25.5 | 28 59 | 9 | 1 | 13.2 | 26.3 | 29 39 | 7 | 9 | 3 | 27.2 | 0 19 | 4 | 7 | | | | | |
| 54 | 9.2 | 23.8 | 27 50 | 13.3 | 8 | 10.2 | 24.6 | 28 30 | 14.0 | 3.6 | 4 | 25.5 | 29 9 | 7 | 4 | 4 | 26.4 | 29 48 | 15.4 | 2 | 5 | 27.2 | 0 27 | 16.1 | 6.1 | 6 | 28.1 | 1 7 | 8 | 8 | | | | | |
| 55 | 5 | 24.8 | 28 43 | 8 | 3.0 | 6 | 25.6 | 29 22 | 5 | 7 | 7 | 26.5 | 0 0 | 15.2 | 5 | 8 | 27.4 | 0 39 | 9 | 4 | 9 | 28.2 | 1 17 | 5 | 2 | 15.0 | 29.1 | 1 56 | 17.2 | 7.0 | | | | | |
| 56 | 8 | 25.8 | 29 37 | 14.3 | 1 | 9 | 26.7 | 0 15 | 15.0 | 9 | 12.0 | 27.5 | 0 53 | 7 | 7 | 13.2 | 28.4 | 1 31 | 16.4 | 6 | 14.3 | 29.3 | 2 9 | 17.0 | 4 | 4 | 0.1 | 2 47 | 7 | 2 | | | | | |
| 57 | 10.1 | 27.0 | 0 32 | 8 | 3 | 11.3 | 27.8 | 1 10 | 5 | 4.1 | 4 | 28.6 | 1 47 | 16.2 | 8 | 6 | 29.5 | 2 25 | 9 | 7 | 6 | 0.4 | 3 2 | 5 | 5 | 8 | 1.2 | 3 39 | 18.2 | 3 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

3

| H. M. S. SID. T. 0 22 2 } γ ARC 5° 30'.4 } 6° | | | | | | H. M. S. 0 25 42 } γ 7° 6° 25'.6 } 7° | | | | | | H. M. S. 0 29 23 } γ 8° 7° 20'.8 } 8° | | | | | | H. M. S. 0 33 4 } γ 9° 8° 16'.0 } 9° | | | | | | H. M. S. 0 36 45 } γ 10° 9° 11'.3 } 10° | | | | | | H. M. S. 0 40 27 } γ 11° 10° 6'.6 } 11° | | | | | | | | | | | | | | | | | | |
|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|---|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|----|------|------|------|------|------|------|------|----|----|----|----|------|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | | | | | | | | | |
| Lat. | 8 | □ | ☾ | ☾ | ☾ | 8 | □ | ☾ | ☾ | ☾ | 8 | □ | ☾ | ☾ | ☾ | 8 | □ | ☾ | ☾ | ☾ | 8 | □ | ☾ | ☾ | ☾ | 8 | □ | ☾ | ☾ | ☾ | 8 | □ | ☾ | ☾ | ☾ | | | | | | | | | | | | | |
| 22 | 10.0 | 13.3 | 14 | 2 | 8.2 | 5.0 | 10.9 | 14.2 | 14 | 51 | 9.0 | 5.9 | 11.9 | 15.1 | 15 | 40 | 9.9 | 6.8 | 12.9 | 16.0 | 16 | 29 | 10.7 | 7.8 | 13.9 | 16.9 | 17 | 18 | 11 | 6 | 8.7 | 14.8 | 17.7 | 18 | 7 | 12.4 | 9.6 | | | | | | | | | | | |
| 23 | 1 | 6 | 14 | 29 | 4 | 1 | 11.1 | 5 | 15 | 17 | 3 | 6.0 | 12.0 | 4 | 16 | 6 | 10.1 | 9 | 13.0 | 3 | 16 | 55 | 9 | 8 | 14.0 | 17.2 | 17 | 44 | 8 | 8 | 15.0 | 18.1 | 18 | 32 | 6 | 7 | | | | | | | | | | | | |
| 24 | 2 | 14 | 0 | 14 | 55 | 7 | 1 | 2 | 8 | 15 | 44 | 5 | 0 | 2 | 8 | 16 | 32 | 3 | 7.0 | 1 | 6 | 17 | 21 | 11.2 | 9 | 1 | 5 | 18 | 10 | 12.0 | 8 | 1 | 4 | 18 | 58 | 8 | 8 | | | | | | | | | | | |
| 25 | 3 | 3 | 15 | 22 | 9 | 2 | 3 | 15 | 2 | 16 | 11 | 7 | 1 | 3 | 16 | 1 | 16 | 59 | 6 | 0 | 2 | 17 | 0 | 17 | 47 | 4 | 8.0 | 2 | 8 | 18 | 36 | 2 | 9 | 2 | 7 | 19 | 24 | 13 | 1 | 8 | | | | | | | | |
| 26 | 4 | 6 | 15 | 50 | 9.1 | 3 | 4 | 5 | 16 | 38 | 10.0 | 2 | 4 | 4 | 17 | 26 | 8 | 1 | 4 | 3 | 18 | 14 | 6 | 0 | 3 | 18 | 2 | 19 | 2 | 4 | 9 | 3 | 19 | 1 | 19 | 50 | 3 | 9 | | | | | | | | | | |
| 27 | 10.5 | 15.0 | 16 | 17 | 4 | 5.3 | 11.5 | 9 | 17 | 5 | 2 | 3 | 12.5 | 8 | 17 | 54 | 11.0 | 2 | 13.5 | 6 | 18 | 41 | 9 | 1 | 14.5 | 5 | 19 | 29 | 7 | 9.0 | 15.5 | 4 | 20 | 17 | 5 | 9 | | | | | | | | | | | | |
| 28 | 7 | 3 | 16 | 45 | 6 | 4 | 7 | 16 | 2 | 17 | 33 | 5 | 6.3 | 7 | 17 | 1 | 18 | 21 | 3 | 2 | 6 | 18 | 0 | 19 | 9 | 12.1 | 1 | 6 | 9 | 19 | 57 | 9 | 1 | 6 | 8 | 20 | 44 | 8 | 10.0 | | | | | | | | | |
| 29 | 8 | 7 | 17 | 14 | 9 | 5 | 8 | 6 | 18 | 1 | 7 | 4 | 8 | 5 | 18 | 49 | 5 | 7.3 | 8 | 3 | 19 | 37 | 3 | 2 | 7 | 19 | 2 | 20 | 24 | 13.2 | 1 | 7 | 20 | 1 | 21 | 12 | 14.0 | 1 | | | | | | | | | | |
| 30 | 9 | 16 | 0 | 17 | 43 | 10.2 | 6 | 9 | 9 | 18 | 30 | 11.0 | 5 | 9 | 8 | 19 | 17 | 8 | 4 | 9 | 7 | 20 | 5 | 6 | 8.3 | 9 | 6 | 20 | 52 | 4 | 2 | 9 | 5 | 21 | 39 | 2 | 1 | | | | | | | | | | | |
| 31 | 11.1 | 4 | 18 | 12 | 4 | 5.6 | 12.1 | 17 | 3 | 18 | 59 | 2 | 5 | 13.0 | 18 | 2 | 19 | 46 | 12.0 | 5 | 14 | 0 | 19 | 1 | 20 | 33 | 8 | 4 | 15.0 | 9 | 21 | 20 | 7 | 3 | 16 | 0 | 8 | 22 | 7 | 5 | 2 | | | | | | | |
| 32 | 2 | 8 | 18 | 41 | 7 | 7 | 2 | 7 | 19 | 29 | 5 | 6.6 | 2 | 5 | 20 | 16 | 3 | 5 | 2 | 4 | 21 | 3 | 13.1 | 4 | 2 | 20 | 3 | 21 | 49 | 9 | 9.3 | 2 | 21 | 2 | 22 | 36 | 7 | 2 | | | | | | | | | | |
| 33 | 3 | 17 | 2 | 19 | 12 | 11.0 | 8 | 4 | 18 | 1 | 19 | 59 | 8 | 7 | 3 | 9 | 20 | 45 | 6 | 6 | 3 | 8 | 21 | 32 | 4 | 5 | 3 | 7 | 22 | 18 | 14.2 | 4 | 3 | 6 | 23 | 5 | 15.0 | 10.3 | | | | | | | | | | |
| 34 | 5 | 6 | 19 | 42 | 2 | 9 | 5 | 5 | 20 | 29 | 12.0 | 8 | 5 | 19 | 3 | 21 | 15 | 8 | 7.7 | 5 | 20 | 2 | 22 | 2 | 6 | 6 | 5 | 21 | 1 | 22 | 48 | 4 | 5 | 5 | 22 | 0 | 23 | 34 | 2 | 4 | | | | | | | | |
| 35 | 7 | 18 | 0 | 20 | 14 | 5 | 6.0 | 7 | 9 | 21 | 0 | 3 | 9 | 7 | 8 | 21 | 46 | 13.1 | 7 | 7 | 6 | 22 | 32 | 9 | 8.6 | 7 | 5 | 23 | 18 | 7 | 5 | 7 | 4 | 24 | 4 | 5 | 4 | | | | | | | | | | | |
| 36 | 8 | 5 | 20 | 45 | 8 | 0 | 8 | 19 | 3 | 21 | 31 | 6 | 7.0 | 8 | 20 | 2 | 22 | 17 | 4 | 8 | 8 | 21 | 1 | 23 | 3 | 14.2 | 7 | 8 | 22 | 0 | 23 | 49 | 15.0 | 6 | 8 | 8 | 24 | 35 | 8 | 5 | | | | | | | | |
| 37 | 12.0 | 9 | 21 | 18 | 12.1 | 1 | 13.0 | 8 | 22 | 3 | 9 | 1 | 14.0 | 7 | 22 | 49 | 7 | 9 | 15.0 | 5 | 23 | 34 | 4 | 8 | 16.0 | 4 | 24 | 20 | 2 | 9.7 | 17 | 0 | 23 | 3 | 25 | 5 | 16.0 | 6 | | | | | | | | | | |
| 38 | 2 | 19 | 4 | 21 | 51 | 4 | 2 | 2 | 20 | 3 | 22 | 36 | 13.1 | 2 | 2 | 21 | 1 | 23 | 21 | 9 | 8.0 | 2 | 22 | 0 | 24 | 7 | 6 | 9 | 2 | 9 | 24 | 52 | 5 | 8 | 2 | 7 | 25 | 37 | 2 | 10.6 | | | | | | | | |
| 39 | 3 | 9 | 22 | 24 | 6 | 6.3 | 4 | 7 | 23 | 9 | 4 | 3 | 4 | 6 | 23 | 54 | 14.2 | 1 | 4 | 5 | 24 | 39 | 9 | 9 | 4 | 23 | 4 | 25 | 24 | 7 | 8 | 4 | 24 | 2 | 26 | 9 | 5 | 7 | | | | | | | | | | |
| 40 | 5 | 20 | 4 | 22 | 58 | 9 | 4 | 5 | 21 | 2 | 23 | 43 | 7 | 7.4 | 6 | 22 | 1 | 24 | 28 | 5 | 1 | 6 | 23 | 0 | 25 | 13 | 15.2 | 9.0 | 6 | 9 | 25 | 57 | 16.0 | 9 | 6 | 8 | 26 | 42 | 8 | 8 | | | | | | | | |
| 41 | 7 | 9 | 23 | 33 | 13.2 | 5 | 7 | 8 | 24 | 18 | 14.1 | 4 | 8 | 6 | 25 | 2 | 8 | 2 | 8 | 5 | 25 | 47 | 5 | 1 | 8 | 24 | 4 | 26 | 31 | 3 | 10.0 | 8 | 25 | 3 | 27 | 15 | 17.1 | 9 | | | | | | | | | | |
| 42 | 9 | 21 | 4 | 24 | 9 | 5 | 6 | 14 | 0 | 22 | 3 | 4 | 5 | 15 | 0 | 23 | 2 | 25 | 37 | 15.1 | 8.3 | 16 | 0 | 24 | 1 | 26 | 21 | 8 | 2 | 17.0 | 9 | 27 | 5 | 6 | 1 | 18 | 0 | 8 | 27 | 49 | 4 | 9 | | | | | | |
| 43 | 13.2 | 22 | 0 | 24 | 46 | 8 | 6.7 | 2 | 9 | 25 | 30 | 7 | 5 | 2 | 7 | 26 | 13 | 4 | 4 | 2 | 6 | 26 | 57 | 16.1 | 3 | 2 | 25 | 5 | 27 | 40 | 9 | 1 | 3 | 26 | 4 | 28 | 24 | 7 | 11 | 0 | | | | | | | | |
| 44 | 4 | 6 | 25 | 23 | 14.1 | 8 | 4 | 23 | 5 | 26 | 7 | 15.0 | 7.6 | 4 | 24 | 3 | 26 | 50 | 7 | 5 | 5 | 25 | 2 | 27 | 33 | 5 | 9.4 | 5 | 26 | 1 | 28 | 16 | 17.2 | 2 | 5 | 9 | 28 | 59 | 18 | 0 | 1 | | | | | | | |
| 45 | 6 | 23 | 2 | 26 | 2 | 5 | 9 | 6 | 24 | 1 | 26 | 44 | 3 | 7 | 6 | 9 | 27 | 27 | 16.0 | 6 | 7 | 8 | 28 | 10 | 8 | 4 | 7 | 7 | 28 | 53 | 5 | 10.3 | 7 | 27 | 5 | 29 | 36 | 3 | 2 | | | | | | | | | |
| 46 | 8 | 8 | 26 | 41 | 8 | 7.0 | 8 | 7 | 27 | 23 | 6 | 8 | 8 | 8 | 25 | 5 | 28 | 6 | 3 | 8.7 | 9 | 26 | 4 | 28 | 48 | 17.1 | 5 | 9 | 27 | 3 | 29 | 30 | 8 | 4 | 9 | 28 | 1 | 0 | 13 | 6 | 3 | | | | | | | |
| 47 | 14.0 | 24 | 5 | 27 | 21 | 15.1 | 1 | 15 | 0 | 25 | 3 | 28 | 3 | 16.0 | 9 | 16 | 1 | 26 | 2 | 28 | 45 | 6 | 8 | 17 | 1 | 27 | 1 | 29 | 27 | 4 | 6 | 18.2 | 9 | 0 | 9 | 18 | 1 | 5 | 19 | 1 | 8 | 0 | 51 | 19 | 0 | 11.3 | | |
| 48 | 3 | 25 | 1 | 28 | 2 | 5 | 2 | 2 | 26 | 0 | 28 | 44 | 4 | 8.0 | 4 | 8 | 29 | 25 | 17.0 | 9 | 4 | 7 | 0 | 7 | 7 | 9.7 | 5 | 28 | 6 | 0 | 48 | 5 | 6 | 4 | 29 | 4 | 1 | 30 | 3 | 4 | | | | | | | | |
| 49 | 5 | 8 | 28 | 45 | 9 | 3 | 5 | 7 | 29 | 26 | 7 | 1 | 6 | 27 | 5 | 0 | 7 | 4 | 9.0 | 7 | 28 | 4 | 0 | 48 | 18.1 | 8 | 7 | 29 | 2 | 1 | 29 | 8 | 10.7 | 7 | 0 | 1 | 2 | 9 | 7 | 5 | | | | | | | | |
| 50 | 8 | 26 | 5 | 29 | 28 | 16.3 | 4 | 8 | 27 | 4 | 0 | 9 | 17.1 | 2 | 9 | 28 | 2 | 0 | 49 | 8 | 1 | 18 | 0 | 29 | 1 | 1 | 30 | 5 | 9 | 19 | 0 | 9 | 2 | 10 | 19 | 2 | 8 | 20 | 0 | 8 | 2 | 50 | 20 | 0 | 6 | | | |
| 51 | 15.1 | 27 | 3 | 0 | 13 | 7 | 7.5 | 16 | 1 | 28 | 2 | 0 | 53 | 5 | 3 | 17 | 2 | 29 | 0 | 133 | 18.2 | 2 | 3 | 9 | 2 | 12 | 9 | 10.0 | 3 | 0.7 | 2 | 52 | 6 | 9 | 3 | 1 | 5 | 3 | 32 | 3 | 11.7 | | | | | | | |
| 52 | 4 | 28 | 1 | 0 | 58 | 17.1 | 6 | 4 | 29 | 0 | 1 | 38 | 9 | 8.4 | 5 | 8 | 2 | 18 | 6 | 3 | 6 | 0 | 7 | 2 | 57 | 19.3 | 1 | 6 | 1 | 5 | 3 | 36 | 20 | 0 | 11.0 | 7 | 2 | 3 | 4 | 15 | 7 | 8 | | | | | | |
| 53 | 7 | 29 | 0 | 1 | 46 | 5 | 7 | 8 | 8 | 2 | 25 | 18.3 | 5 | 9 | 0 | 7 | 3 | 4 | 19 | 0 | 9.4 | 9 | 1 | 5 | 3 | 42 | 7 | 2 | 20 | 0 | 2 | 3 | 4 | 21 | 4 | 1 | 21 | 1 | 3 | 2 | 5 | 0 | 21 | 1 | 9 | | | |
| 54 | 16 | 1 | 9 | 2 | 34 | 9 | 8 | 17 | 2 | 0 | 8 | 3 | 13 | 7 | 6 | 18 | 3 | 1 | 6 | 3 | 51 | 4 | 5 | 19 | 3 | 2 | 4 | 4 | 3 | 2 | 5 | 7 | 8 | 2 | 5 | 4 | 1 | 5 | 45 | 5 | 12 | 0 | | | | | | |
| 55 | 5 | 0 | 9 | 3 | 24 | 18.4 | 8 | 6 | 1 | 8 | 4 | 2 | 19 | 1 | 8 | 7 | 2 | 6 | 4 | 40 | 8 | 6 | 7 | 3 | 4 | 5 | 17 | 5 | 4 | 8 | 4 | 2 | 5 | 55 | 21 | 2 | 3 | 9 | 5 | 1 | 6 | 32 | 9 | 1 | | | | |
| 56 | 9 | 2 | 0 | 4 | 16 | 9 | 1 | 18 | 0 | 2 | 9 | 4 | 53 | 6 | 9 | 19 | 1 | 3 | 7 | 5 | 30 | 20.2 | 7 | 20 | 2 | 4 | 5 | 6 | 7 | 9 | 5 | 21 | 3 | 5 | 2 | 6 | 44 | 6 | 4 | 22 | 4 | 6 | 1 | 7 | 21 | 22 | 3 | 2 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

4 UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 0 40 27 } γ ARC 10° 6'.6 } 11° | | | | | | H. M. S. 0 44 8 } γ 12° 11° 2'.0 } | | | | | | H. M. S. 0 47 50 } γ 13° 11° 57'.5 } | | | | | | H. M. S. 0 51 32 } γ 14° 12° 53'.0 } | | | | | | H. M. S. 0 55 14 } γ 15° 13° 48'.6 } | | | | | | H. M. S. 0 58 57 } γ 16° 14° 44'.3 } | | | | | | | |
|--|------|------|----|----|------|---|------|------|----|----|------|---|------|------|-----|----|------|---|------|------|-----|-----|------|---|------|------|----|-----|------|---|------|------|----|-----|------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | 8 | 11 | 18 | 24 | 30 | 8 | 11 | 18 | 24 | 30 | 8 | 11 | 18 | 24 | 30 | 8 | 11 | 18 | 24 | 30 | 8 | 11 | 18 | 24 | 30 | 8 | 11 | 18 | 24 | 30 | 8 | 11 | 18 | 24 | 30 | | |
| 22 | 14.8 | 17.7 | 18 | 7 | 12.4 | 9.6 | 15.8 | 18.6 | 18 | 55 | 13.3 | 10.6 | 16.8 | 19.5 | 19 | 44 | 14.1 | 11.5 | 17.7 | 20.4 | 20 | 33 | 15.0 | 12.4 | 18.7 | 21.2 | 21 | 22 | 15.8 | 13.4 | 19.7 | 22.1 | 22 | 10 | 16.7 | 14.3 | |
| 23 | 15.0 | 18.1 | 18 | 32 | 6 | 7 | 9 | 9 | 19 | 21 | 5 | 6 | 9 | 8 | 20 | 9 | 3 | 6 | 9 | 7 | 20 | 58 | 2 | 5 | 8 | 6 | 21 | 47 | 16.0 | 4 | 8 | 4 | 22 | 35 | 9 | 4 | |
| 24 | 1 | 4 | 18 | 58 | 8 | 8 | 16.1 | 19.3 | 19 | 46 | 7 | 7 | 17.0 | 20.2 | 20 | 35 | 5 | 6 | 18.0 | 21.0 | 21 | 23 | 4 | 5 | 19.0 | 9 | 22 | 12 | 2 | 5 | 9 | 8 | 23 | 0 | 17.1 | 4 | |
| 25 | 2 | 7 | 19 | 24 | 13.1 | 8 | 2 | 6 | 20 | 12 | 9 | 7 | 2 | 5 | 21 | 1 | 8 | 7 | 1 | 4 | 21 | 49 | 6 | 6 | 1 | 22.2 | 22 | 37 | 4 | 5 | 20.0 | 23.1 | 23 | 25 | 3 | 5 | |
| 26 | 3 | 19.1 | 19 | 50 | 3 | 9 | 3 | 9 | 20 | 38 | 14.1 | 10.8 | 3 | 8 | 21 | 27 | 15.0 | 7 | 2 | 7 | 22 | 15 | 8 | 6 | 2 | 6 | 23 | 3 | 6 | 13.6 | 2 | 4 | 23 | 51 | 5 | 5 | |
| 27 | 15.5 | 4 | 20 | 17 | 5 | 9 | 4 | 20.3 | 21 | 5 | 4 | 8 | 4 | 21.2 | 21 | 53 | 2 | 11.8 | 4 | 22.0 | 22 | 41 | 16.0 | 12.7 | 4 | 9 | 23 | 29 | 9 | 6 | 3 | 8 | 24 | 17 | 7 | 14.6 | |
| 28 | 6 | 8 | 20 | 44 | 8 | 10.0 | 16.6 | 6 | 21 | 32 | 6 | 9 | 17.6 | 5 | 22 | 20 | 4 | 8 | 18.5 | 4 | 23 | 7 | 3 | 7 | 19.5 | 23.3 | 23 | 55 | 17.1 | 7 | 5 | 24.1 | 24 | 43 | 9 | 6 | |
| 29 | 7 | 20.1 | 21 | 12 | 14.0 | 1 | 7 | 21.0 | 21 | 59 | 8 | 11.0 | 7 | 9 | 22 | 46 | 7 | 9 | 7 | 7 | 23 | 34 | 5 | 8 | 6 | 6 | 24 | 21 | 3 | 7 | 20.6 | 5 | 25 | 9 | 18.1 | 6 | |
| 30 | 9 | 5 | 21 | 39 | 2 | 1 | 9 | 4 | 22 | 26 | 15.1 | 0 | 8 | 22.2 | 23 | 14 | 9 | 9 | 8 | 23.1 | 24 | 1 | 7 | 9 | 8 | 24.0 | 24 | 48 | 5 | 13.8 | 8 | 8 | 25 | 35 | 4 | 7 | |
| 31 | 16.0 | 8 | 22 | 7 | 5 | 2 | 17.0 | 7 | 22 | 54 | 3 | 1 | 18.0 | 6 | 23 | 41 | 16.1 | 12.0 | 19.0 | 5 | 24 | 28 | 9 | 9 | 20.0 | 3 | 25 | 15 | 8 | 8 | 9 | 25.2 | 26 | 2 | 6 | 7 | |
| 32 | 2 | 21.2 | 22 | 36 | 7 | 2 | 2 | 22.1 | 23 | 23 | 6 | 1 | 1 | 23.0 | 24 | 9 | 4 | 1 | 1 | 8 | 24 | 56 | 17.2 | 13.0 | 1 | 7 | 25 | 43 | 18.0 | 9 | 21.1 | 6 | 26 | 30 | 8 | 14.8 | |
| 33 | 3 | 6 | 23 | 5 | 15.0 | 10.3 | 3 | 5 | 23 | 51 | 8 | 2 | 3 | 3 | 24 | 38 | 6 | 1 | 3 | 24.2 | 25 | 24 | 4 | 0 | 3 | 25.1 | 26 | 11 | 2 | 9 | 3 | 26.0 | 26 | 57 | 19.0 | 8 | |
| 34 | 5 | 22.0 | 23 | 34 | 2 | 4 | 5 | 9 | 24 | 21 | 16.1 | 11.3 | 5 | 7 | 25 | 7 | 9 | 2 | 5 | 6 | 25 | 53 | 7 | 1 | 5 | 5 | 26 | 39 | 5 | 14.0 | 4 | 4 | 27 | 25 | 3 | 9 | |
| 35 | 7 | 4 | 24 | 4 | 5 | 4 | 6 | 23.3 | 24 | 50 | 3 | 3 | 6 | 24.2 | 25 | 36 | 17.1 | 2 | 6 | 25.0 | 26 | 22 | 9 | 1 | 6 | 9 | 27 | 8 | 7 | 0 | 6 | 8 | 27 | 54 | 5 | 9 | |
| 36 | 8 | 8 | 24 | 35 | 8 | 5 | 8 | 7 | 25 | 20 | 6 | 4 | 8 | 6 | 26 | 6 | 4 | 12.3 | 8 | 5 | 26 | 52 | 18.2 | 2 | 8 | 26.3 | 27 | 37 | 19.0 | 1 | 8 | 27.2 | 28 | 23 | 8 | 15.0 | |
| 37 | 17.0 | 23.3 | 25 | 5 | 16.0 | 6 | 18.0 | 24.2 | 25 | 51 | 8 | 5 | 19.0 | 25.0 | 26 | 36 | 6 | 4 | 20.0 | 9 | 27 | 22 | 4 | 13.3 | 21.0 | 8 | 28 | 7 | 2 | 1 | 22.0 | 6 | 28 | 53 | 20.0 | 0 | |
| 38 | 2 | 7 | 25 | 37 | 2 | 10.6 | 2 | 6 | 26 | 22 | 17.1 | 5 | 2 | 5 | 27 | 7 | 9 | 4 | 2 | 26.4 | 27 | 52 | 7 | 3 | 2 | 27.2 | 28 | 37 | 5 | 14.2 | 2 | 28.1 | 29 | 23 | 2 | 1 | |
| 39 | 4 | 24.2 | 26 | 9 | 5 | 7 | 4 | 25.1 | 26 | 54 | 4 | 11.6 | 4 | 26.0 | 27 | 39 | 18.2 | 5 | 4 | 9 | 28 | 23 | 9 | 4 | 4 | 7 | 29 | 8 | 7 | 3 | 4 | 6 | 29 | 53 | 4 | 2 | |
| 40 | 6 | 8 | 26 | 42 | 8 | 8 | 6 | 6 | 27 | 26 | 6 | 7 | 6 | 5 | 28 | 11 | 4 | 6 | 6 | 27.4 | 28 | 55 | 19.2 | 4 | 6 | 28.2 | 29 | 39 | 20.0 | 3 | 6 | 29.1 | 0 | 24 | 7 | 15.2 | |
| 41 | 8 | 25.3 | 27 | 15 | 17.1 | 9 | 8 | 26.1 | 27 | 59 | 9 | 7 | 8 | 27.0 | 28 | 43 | 7 | 12.6 | 8 | 9 | 29 | 27 | 5 | 5 | 8 | 7 | 0 | 11 | 3 | 4 | 8 | 6 | 0 | 55 | 21.0 | 3 | |
| 42 | 18.0 | 8 | 27 | 49 | 4 | 9 | 19.0 | 7 | 28 | 33 | 18.2 | 8 | 20.0 | 5 | 29 | 17 | 19.0 | 7 | 21.0 | 28.4 | 0 | 0 | 8 | 13.6 | 22.0 | 29.2 | 0 | 44 | 5 | 14.4 | 23.0 | 0 | 1 | 128 | 2 | 3 | |
| 43 | 3 | 26.4 | 28 | 24 | 7 | 11.0 | 3 | 27.2 | 29 | 7 | 5 | 9 | 3 | 28.1 | 29 | 51 | 3 | 8 | 3 | 9 | 0 | 34 | 20.0 | 6 | 3 | 8 | 1 | 17 | 8 | 5 | 3 | 6 | 2 | 1 | 5 | 4 | |
| 44 | 5 | 9 | 28 | 59 | 18.0 | 1 | 5 | 8 | 29 | 42 | 8 | 12.0 | 5 | 7 | 0 | 25 | 6 | 8 | 5 | 29.5 | 1 | 8 | 3 | 7 | 5 | 0 | 3 | 151 | 21.1 | 6 | 5 | 1.2 | 2 | 34 | 8 | 15.5 | |
| 45 | 7 | 27.5 | 29 | 36 | 3 | 2 | 7 | 28.4 | 0 | 18 | 19.1 | 1 | 7 | 29.3 | 1 | 1 | 8 | 9 | 7 | 0 | 1 | 143 | 6 | 8 | 8 | 9 | 2 | 26 | 4 | 7 | 8 | 8 | 3 | 8 | 22.1 | 5 | |
| 46 | 9 | 28.1 | 0 | 13 | 6 | 3 | 9 | 29.0 | 0 | 55 | 4 | 2 | 9 | 9 | 1 | 37 | 20.1 | 13.0 | 9 | 7 | 2 | 19 | 9 | 9 | 23.0 | 1.5 | 3 | 1 | 7 | 14.7 | 24.0 | 2.4 | 3 | 44 | 4 | 6 | |
| 47 | 19.1 | 8 | 0 | 51 | 19.0 | 11.3 | 20.2 | 6 | 1 | 32 | 7 | 2 | 21.2 | 0.5 | 2 | 14 | 4 | 0 | 22.2 | 1.3 | 2 | 56 | 21.2 | 14.0 | 3 | 2.1 | 3 | 38 | 22.0 | 8 | 3 | 3.0 | 4 | 19 | 7 | 7 | |
| 48 | 4 | 29.4 | 1 | 30 | 3 | 4 | 5 | 0 | 3 | 2 | 11 | 20.0 | 12.3 | 5 | 1.1 | 2 | 52 | 7 | 1 | 5 | 2.0 | 3 | 34 | 5 | 0 | 6 | 8 | 4 | 15 | 3 | 9 | 6 | 6 | 4 | 56 | 23.0 | 15.8 |
| 49 | 7 | 0 | 1 | 2 | 7 | 5 | 8 | 9 | 2 | 50 | 3 | 4 | 8 | 8 | 3 | 31 | 21.0 | 2 | 8 | 6 | 4 | 12 | 8 | 1 | 9 | 3.5 | 4 | 53 | 6 | 9 | 9 | 4.3 | 5 | 33 | 3 | 8 | |
| 50 | 20.0 | 8 | 2 | 50 | 20.0 | 6 | 21.1 | 1.6 | 3 | 31 | 7 | 5 | 22.1 | 2.5 | 4 | 11 | 4 | 3 | 23.1 | 3.3 | 4 | 51 | 22.2 | 2 | 24.2 | 4.1 | 5 | 32 | 9 | 15.0 | 25.2 | 5.0 | 6 | 12 | 6 | 9 | |
| 51 | 3 | 1.5 | 3 | 32 | 3 | 11.7 | 4 | 2.4 | 4 | 12 | 21.0 | 5 | 4 | 3.2 | 4 | 52 | 7 | 13.4 | 5 | 4.1 | 5 | 32 | 5 | 3 | 6 | 8 | 6 | 11 | 23.2 | 1 | 6 | 7 | 6 | 51 | 9 | 9 | |
| 52 | 7 | 2.3 | 4 | 15 | 7 | 8 | 8 | 3.2 | 4 | 55 | 4 | 12.6 | 8 | 4.0 | 5 | 34 | 22.1 | 4 | 9 | 9 | 6 | 13 | 9 | 14.3 | 9 | 5.6 | 6 | 52 | 6 | 1 | 26.0 | 6.5 | 7 | 32 | 24.3 | 16.0 | |
| 53 | 21.1 | 3.2 | 5 | 0 | 21.1 | 9 | 22.2 | 4.1 | 5 | 38 | 8 | 7 | 23.2 | 9 | 6 | 17 | 5 | 5 | 24.3 | 5.7 | 6 | 56 | 23.2 | 4 | 25.3 | 6.4 | 7 | 34 | 9 | 2 | 4 | 7.3 | 8 | 13 | 6 | 1 | |
| 54 | 5 | 4.1 | 5 | 45 | 5 | 12.0 | 6 | 5.0 | 6 | 23 | 22.2 | 8 | 6 | 5.8 | 7 | 2 | 9 | 6 | 7 | 6.6 | 7 | 40 | 6 | 5 | 7 | 7.3 | 8 | 18 | 24.3 | 15.3 | 8 | 8.1 | 8 | 56 | 25.0 | 2 | |
| 55 | 9 | 5.1 | 6 | 32 | 9 | 1 | 23.0 | 5.9 | 7 | 10 | 6 | 9 | 24.0 | 6.7 | 7 | 47 | 23.3 | 7 | 25.1 | 7.5 | 8 | 25 | 24.0 | 6 | 26.1 | 8.2 | 9 | 2 | 7 | 4 | 27.2 | 9.0 | 9 | 40 | 4 | 2 | |
| 56 | 22.4 | 6.1 | 7 | 21 | 22.3 | 2 | 5 | 6.9 | 7 | 57 | 23.0 | 13.0 | 5 | 7.7 | 8 | 34 | 7 | 8 | 6 | 8.5 | 9 | 11 | 4 | 7 | 6 | 9.2 | 9 | 48 | 25.1 | 5 | 7 | 10.0 | 10 | 25 | 8 | 3 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

5

| H. M. S. SID. T. 1 2 40 } γ ARC 15° 40'.0 } 17° | | | | | | H. M. S. 1 6 23 } γ 18° 16° 35'.9 } | | | | | | H. M. S. 1 10 7 } γ 19° 17° 31'.8 } | | | | | | H. M. S. 1 13 51 } γ 20° 18° 27'.8 } | | | | | | H. M. S. 1 17 36 } γ 21° 19° 24'.0 } | | | | | | H. M. S. 1 21 21 } γ 22° 20° 20'.2 } | | | | | | | |
|--|------|------|-------|------|------|--|------|-------|------|------|------|--|-------|------|------|------|------|---|------|------|------|------|-------|---|------|------|------|------|------|---|------|------|------|----|------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | 8 | 11 | 15 | 19 | 22 | 8 | 11 | 15 | 19 | 22 | 8 | 11 | 15 | 19 | 22 | 8 | 11 | 15 | 19 | 22 | 8 | 11 | 15 | 19 | 22 | 8 | 11 | 15 | 19 | 22 | 8 | 11 | 15 | 19 | 22 | | |
| 22 | 20.6 | 23.0 | 22.59 | 17.5 | 15.3 | 21.6 | 23.8 | 23.49 | 18.4 | 16.2 | 22.5 | 24.7 | 24.38 | 19.3 | 17.2 | 23.5 | 25.6 | 25.27 | 20.1 | 18.1 | 24.4 | 26.4 | 26.16 | 21.0 | 19.1 | 25.4 | 27.3 | 27.5 | 21.9 | 20.1 | | | | | | | |
| 23 | 7 | 3 | 23 | 24 | 7 | 3 | 7 | 24.2 | 24 | 13 | 6 | 3 | 7 | 25.0 | 25 | 2 | 6 | 9 | 25 | 51 | 3 | 2 | 6 | 8 | 26 | 40 | 2 | 1 | 5 | 6 | 27 | 29 | 22.1 | 1 | | | |
| 24 | 9 | 6 | 23 | 49 | 9 | 4 | 8 | 5 | 24 | 38 | 8 | 3 | 8 | 4 | 25 | 26 | 7 | 3 | 7 | 26.2 | 26 | 15 | 5 | 2 | 7 | 27.1 | 27 | 4 | 4 | 2 | 7 | 9 | 27 | 53 | 3 | 1 | |
| 25 | 21.0 | 24.0 | 24 | 14 | 18.1 | 4 | 22.0 | 8 | 25 | 2 | 19.0 | 3 | 9 | 7 | 25 | 51 | 9 | 3 | 9 | 5 | 26 | 39 | 7 | 2 | 8 | 4 | 27 | 28 | 6 | 2 | 8 | 28.3 | 28 | 17 | 5 | 2 | |
| 26 | 1 | 3 | 24 | 39 | 3 | 4 | 1 | 25.2 | 25 | 27 | 2 | 4 | 23.1 | 26.0 | 26 | 16 | 20.1 | 3 | 24.0 | 9 | 27 | 4 | 9 | 3 | 25.0 | 7 | 27 | 52 | 8 | 2 | 26.0 | 6 | 28 | 41 | 7 | 2 | |
| 27 | 3 | 6 | 25 | 5 | 6 | 15.5 | 2 | 5 | 25 | 53 | 4 | 16.4 | 2 | 4 | 26 | 41 | 3 | 17.4 | 2 | 27.2 | 27 | 29 | 21.1 | 18.3 | 1 | 28.1 | 28 | 17 | 22.0 | 19.3 | 1 | 9 | 29 | 5 | 8 | 20.2 | |
| 28 | 4 | 25.0 | 25 | 30 | 8 | 5 | 4 | 8 | 26 | 18 | 6 | 5 | 4 | 7 | 27 | 6 | 5 | 4 | 3 | 6 | 27 | 54 | 3 | 3 | 3 | 4 | 28 | 42 | 2 | 3 | 3 | 29.3 | 29 | 30 | 23.0 | 2 | |
| 29 | 21.6 | 3 | 25 | 56 | 19.0 | 6 | 22.5 | 26.2 | 26 | 44 | 8 | 5 | 5 | 27.1 | 27 | 32 | 7 | 4 | 5 | 9 | 28 | 19 | 5 | 4 | 5 | 8 | 29 | 7 | 4 | 3 | 4 | 6 | 29 | 55 | 2 | 3 | |
| 30 | 7 | 7 | 26 | 23 | 2 | 6 | 7 | 6 | 27 | 10 | 20.1 | 6 | 7 | 4 | 27 | 57 | 9 | 5 | 6 | 28.3 | 28 | 45 | 7 | 4 | 6 | 29.1 | 29 | 32 | 6 | 4 | 26.6 | 26 | 0 | 20 | 4 | 3 | |
| 31 | 9 | 26.1 | 26 | 49 | 4 | 7 | 9 | 9 | 27 | 36 | 3 | 16.6 | 8 | 8 | 28 | 24 | 21.1 | 5 | 8 | 6 | 29 | 11 | 9 | 18.4 | 8 | 5 | 29 | 58 | 8 | 4 | 7 | 0 | 4 | 45 | 6 | 3 | |
| 32 | 22.1 | 4 | 27 | 16 | 6 | 15.7 | 23.0 | 27.3 | 28 | 3 | 5 | 6 | 24.0 | 28.1 | 28 | 50 | 3 | 17.6 | 25.0 | 29.0 | 29 | 37 | 22.1 | 5 | 26.0 | 9 | 0 | 24 | 23.0 | 19.4 | 9 | 7 | 1 | 11 | 8 | 20.4 | |
| 33 | 2 | 8 | 27 | 44 | 9 | 8 | 2 | 7 | 28 | 30 | 7 | 7 | 2 | 5 | 29 | 17 | 6 | 6 | 2 | 4 | 0 | 4 | 4 | 5 | 1 | 0.2 | 0 | 50 | 2 | 5 | 27.1 | 1.1 | 1 | 37 | 24.0 | 4 | |
| 34 | 4 | 27.2 | 28 | 12 | 20.1 | 8 | 4 | 28.1 | 28 | 58 | 9 | 7 | 3 | 9 | 29 | 44 | 8 | 7 | 4 | 8 | 0 | 31 | 6 | 6 | 3 | 6 | 1 | 17 | 4 | 5 | 3 | 5 | 2 | 4 | 2 | 4 | |
| 35 | 6 | 6 | 28 | 40 | 4 | 9 | 6 | 5 | 29 | 26 | 21.2 | 16.8 | 5 | 29.3 | 0 | 12 | 22.0 | 7 | 5 | 0.2 | 0 | 58 | 8 | 18.6 | 5 | 1.0 | 1 | 44 | 6 | 5 | 5 | 9 | 2 | 30 | 4 | 5 | |
| 36 | 8 | 28.0 | 29 | 9 | 6 | 9 | 8 | 9 | 29 | 54 | 4 | 8 | 7 | 7 | 0 | 40 | 2 | 7 | 7 | 6 | 1 | 26 | 23.0 | 6 | 7 | 5 | 2 | 12 | 8 | 6 | 7 | 2 | 4 | 2 | 58 | 6 | 5 |
| 37 | 23.0 | 5 | 29 | 38 | 8 | 16.0 | 24.0 | 29.3 | 0 | 23 | 6 | 9 | 9 | 0.2 | 1 | 9 | 4 | 17.8 | 9 | 1.0 | 1 | 54 | 2 | 7 | 9 | 9 | 2 | 40 | 24.0 | 19.6 | 9 | 8 | 3 | 25 | 8 | 20.5 | |
| 38 | 2 | 9 | 0 | 7 | 21.0 | 0 | 2 | 8 | 0 | 53 | 8 | 9 | 25.1 | 6 | 1 | 38 | 6 | 8 | 26.1 | 5 | 2 | 23 | 4 | 7 | 27.1 | 2 | 4 | 3 | 8 | 2 | 7 | 28.1 | 3.2 | 3 | 53 | 25.0 | 6 |
| 39 | 4 | 29.4 | 0 | 38 | 2 | 1 | 4 | 0.3 | 1 | 22 | 22.0 | 17.0 | 3 | 1.1 | 2 | 7 | 8 | 9 | 3 | 2.0 | 2 | 52 | 6 | 18.8 | 3 | 8 | 3 | 37 | 4 | 7 | 3 | 7 | 4 | 22 | 2 | 6 | |
| 40 | 6 | 9 | 1 | 8 | 5 | 1 | 6 | 8 | 1 | 53 | 3 | 0 | 6 | 6 | 2 | 37 | 23.1 | 9 | 5 | 5 | 3 | 22 | 9 | 8 | 5 | 3.3 | 4 | 6 | 7 | 7 | 5 | 4 | 2 | 45 | 5 | 6 | |
| 41 | 8 | 0.4 | 1 | 40 | 7 | 2 | 8 | 1.3 | 2 | 24 | 5 | 1 | 8 | 2.1 | 3 | 8 | 3 | 18.0 | 8 | 3.0 | 3 | 52 | 24.1 | 9 | 7 | 8 | 4 | 36 | 9 | 19.8 | 7 | 6 | 5 | 20 | 7 | 20.7 | |
| 42 | 24.0 | 9 | 2 | 11 | 22.0 | 16.2 | 25.0 | 8 | 2 | 55 | 8 | 1 | 26.0 | 6 | 3 | 39 | 6 | 0 | 27.0 | 5 | 4 | 22 | 4 | 9 | 28.0 | 4.3 | 5 | 7 | 25.2 | 8 | 9 | 5.1 | 5 | 50 | 26.0 | 7 | |
| 43 | 3 | 1.5 | 2 | 44 | 3 | 3 | 3 | 2.3 | 3 | 27 | 23.1 | 2 | 2 | 3.2 | 4 | 11 | 9 | 1 | 2 | 4.0 | 4 | 54 | 6 | 19.0 | 2 | 9 | 5 | 38 | 4 | 9 | 29.2 | 7 | 6 | 21 | 2 | 7 | |
| 44 | 5 | 2.0 | 3 | 17 | 6 | 4 | 5 | 9 | 4 | 0 | 3 | 17.2 | 5 | 7 | 4 | 43 | 24.1 | 1 | 5 | 6 | 5 | 26 | 9 | 0 | 5 | 5 | 4 | 6 | 9 | 7 | 9 | 4 | 6 | 2 | 65 | 5 | 8 |
| 45 | 7 | 6 | 3 | 51 | 9 | 4 | 7 | 3.5 | 4 | 33 | 6 | 3 | 7 | 4.3 | 5 | 16 | 4 | 2 | 7 | 5.1 | 5 | 58 | 25.2 | 1 | 7 | 6 | 0 | 6 | 41 | 9 | 20.0 | 6 | 8 | 7 | 24 | 7 | 20.8 |
| 46 | 25.0 | 3.2 | 4 | 26 | 23.2 | 16.5 | 26.0 | 4.1 | 5 | 8 | 9 | 4 | 27.0 | 9 | 5 | 50 | 7 | 18.2 | 9 | 7 | 6 | 32 | 5 | 1 | 9 | 5 | 7 | 14 | 26.2 | 0 | 9 | 7.3 | 7 | 56 | 27.0 | 8 | |
| 47 | 3 | 8 | 5 | 1 | 5 | 6 | 3 | 7 | 5 | 43 | 24.2 | 4 | 3 | 5.5 | 6 | 24 | 9 | 3 | 28.2 | 6.3 | 7 | 6 | 7 | 2 | 29.2 | 7.1 | 7 | 48 | 4 | 1 | 0.2 | 9 | 8 | 29 | 3 | 9 | |
| 48 | 6 | 4.4 | 5 | 37 | 8 | 6 | 6 | 5.3 | 6 | 18 | 5 | 17.5 | 6 | 6.1 | 7 | 0 | 25.2 | 3 | 5 | 9 | 7 | 41 | 26.0 | 19.2 | 5 | 7 | 8 | 22 | 7 | 1 | 8 | 8.5 | 9 | 3 | 5 | 9 | |
| 49 | 9 | 5.1 | 6 | 14 | 24.1 | 7 | 9 | 9 | 6 | 55 | 8 | 5 | 9 | 7 | 7 | 36 | 5 | 4 | 8 | 7.6 | 8 | 16 | 3 | 3 | 8 | 8.3 | 8 | 57 | 27.0 | 1 | 8 | 9 | 2 | 9 | 38 | 8 | 21.0 |
| 50 | 26.2 | 8 | 6 | 52 | 4 | 16.7 | 27.2 | 6.6 | 7 | 32 | 25.1 | 6 | 28.2 | 7.4 | 8 | 13 | 8 | 4 | 29.2 | 8.2 | 8 | 53 | 6 | 3 | 0.2 | 9 | 0 | 9 | 33 | 3 | 20.2 | 1.2 | 8 | 10 | 14 | 28.1 | 0 |
| 51 | 6 | 6.5 | 7 | 31 | 7 | 8 | 6 | 7.3 | 8 | 11 | 4 | 7 | 6 | 8.1 | 8 | 51 | 26.1 | 18.5 | 6 | 9 | 9 | 30 | 9 | 4 | 6 | 7 | 10 | 10 | 6 | 2 | 6 | 10.8 | 10 | 50 | 4 | 1 | |
| 52 | 27.0 | 7.3 | 8 | 11 | 25.0 | 8 | 28.0 | 8.1 | 8 | 50 | 7 | 17.7 | 29.0 | 9 | 9 | 29 | 4 | 5 | 10 | 9.6 | 10 | 8 | 27.2 | 19.4 | 1.0 | 10.4 | 10 | 48 | 9 | 3 | 2 | 0 | 11.2 | 11 | 27 | 7 | 1 |
| 53 | 4 | 8.1 | 8 | 52 | 3 | 9 | 4 | 9 | 9 | 31 | 26.1 | 8 | 4 | 9.7 | 10 | 9 | 8 | 6 | 0.4 | 10.4 | 10 | 48 | 5 | 5 | 4 | 11.2 | 11 | 27 | 28.2 | 3 | 4 | 12 | 0 | 12 | 6 | 29.0 | 21.2 |
| 54 | 8 | 9 | 9 | 34 | 7 | 17.0 | 8 | 9 | 7 | 10 | 12 | 4 | 8 | 8 | 10.5 | 10 | 50 | 27.1 | 7 | 8 | 11.2 | 11 | 28 | 8 | 5 | 8 | 12.0 | 12 | 6 | 5 | 20.4 | 9 | 8 | 12 | 45 | 3 | 3 |
| 55 | 28.2 | 9.8 | 10 | 17 | 26.1 | 1 | 29.3 | 10.6 | 10 | 55 | 8 | 9 | 0.3 | 11.4 | 11 | 32 | 5 | 8 | 1.3 | 12.1 | 12 | 10 | 28.2 | 6 | 2.3 | 9 | 12 | 47 | 9 | 4 | 3 | 4 | 13.7 | 13 | 25 | 6 | 3 |
| 56 | 7 | 10.7 | 11 | 2 | 5 | 1 | 8 | 11.5 | 11 | 39 | 27.2 | 9 | 8 | 12.3 | 12 | 15 | 9 | 9 | 8 | 13.0 | 12 | 53 | 6 | 7 | 8 | 13 | 8 | 13 | 29 | 29.3 | 5 | 9 | 14 | 6 | 14 | 6 | 4 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

6

UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 1 21 21 } γ ARC 20° 20' 2 } 22° | | | | | | H. M. S. 1 25 6 } γ 23° 21° 16' 6 } | | | | | | H. M. S. 1 28 52 } γ 24° 22° 13' } | | | | | | H. M. S. 1 32 38 } γ 25° 23° 9' 6 } | | | | | | H. M. S. 1 36 25 } γ 26° 24° 6' 3 } | | | | | | H. M. S. 1 40 12 } γ 27° 25° 3' 2 } | | | | | |
|---|------|------|----|----|------|--|------|------|----|----|------|---|------|------|----|----|------|--|------|------|----|------|------|--|------|------|----|----|------|--|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | | | | | |
| 22 | 25.4 | 27.3 | 27 | 5 | 21.9 | 20.1 | 26.3 | 28.2 | 27 | 55 | 22.8 | 21.0 | 27.3 | 29.0 | 28 | 45 | 23.7 | 22.0 | 28.2 | 29.9 | 29 | 34 | 24.5 | 23.0 | 29.1 | 0.8 | 0 | 24 | 25.4 | 24.0 | | | | | |
| 23 | 5 | 6 | 27 | 29 | 22.1 | 1 | 5 | 5 | 28 | 18 | 9 | 1 | 4 | 4 | 29 | 8 | 8 | 0 | 3 | 0.2 | 29 | 57 | 7 | 0 | 3 | 1.1 | 0 | 46 | 6 | 0 | | | | | |
| 24 | 7 | 9 | 27 | 53 | 3 | 1 | 6 | 8 | 28 | 42 | 23.1 | 1 | 5 | 7 | 29 | 31 | 24.0 | 1 | 5 | 5 | 0 | 20 | 9 | 0 | 4 | 4 | 1 | 9 | 8 | 0 | | | | | |
| 25 | 8 | 28.3 | 28 | 17 | 5 | 2 | 8 | 29.1 | 29 | 6 | 3 | 1 | 7 | 29 | 54 | 2 | 1 | 6 | 9 | 0 | 43 | 25.1 | 1 | 6 | 7 | 1 | 32 | 9 | 0 | 5 | | | | | |
| 26 | 26.0 | 6 | 28 | 41 | 7 | 2 | 9 | 5 | 29 | 30 | 5 | 1 | 8 | 0.3 | 0 | 18 | 4 | 1 | 8 | 1.2 | 1 | 7 | 3 | 1 | 7 | 2.1 | 1 | 56 | 26.1 | 0 | | | | | |
| 27 | 1 | 9 | 29 | 5 | 8 | 20.2 | 27.1 | 8 | 29 | 54 | 7 | 21.2 | 28.0 | 7 | 0 | 42 | 6 | 22.1 | 29.0 | 5 | 1 | 31 | 4 | 23.1 | 9 | 4 | 2 | 19 | 3 | 24.0 | | | | | |
| 28 | 3 | 29.3 | 29 | 30 | 23.0 | 2 | 2 | 0.1 | 0 | 18 | 9 | 2 | 1 | 1.0 | 1 | 6 | 7 | 1 | 1 | 9 | 1 | 54 | 6 | 1 | 0.1 | 7 | 2 | 43 | 5 | 1 | | | | | |
| 29 | 4 | 6 | 29 | 55 | 2 | 3 | 4 | 5 | 0 | 43 | 24.1 | 2 | 3 | 4 | 1 | 31 | 9 | 2 | 3 | 2.2 | 2 | 19 | 8 | 1 | 2 | 3.1 | 3 | 7 | 7 | 1 | | | | | |
| 30 | 26.6 | 26 | 0 | 20 | 4 | 3 | 5 | 9 | 1 | 8 | 3 | 3 | 5 | 7 | 1 | 55 | 25.1 | 2 | 4 | 6 | 2 | 43 | 26.0 | 2 | 4 | 4 | 3 | 31 | 8 | 1 | | | | | |
| 31 | 7 | 0.4 | 0 | 45 | 6 | 3 | 7 | 1.2 | 1 | 33 | 5 | 3 | 7 | 2.1 | 2 | 20 | 3 | 2 | 6 | 9 | 3 | 8 | 2 | 2 | 6 | 8 | 3 | 55 | 27.0 | 1 | | | | | |
| 32 | 9 | 7 | 1 | 11 | 8 | 20.4 | 9 | 6 | 1 | 58 | 7 | 21.3 | 8 | 4 | 2 | 45 | 5 | 22.2 | 8 | 3.3 | 3 | 32 | 4 | 23.2 | 8 | 4.2 | 4 | 20 | 2 | 24.1 | | | | | |
| 33 | 27.1 | 1.1 | 1 | 37 | 24.0 | 4 | 28.1 | 2.0 | 2 | 24 | 9 | 3 | 29.0 | 8 | 3 | 11 | 7 | 3 | 11 | 7 | 3 | 58 | 6 | 2 | 1.0 | 5 | 4 | 45 | 4 | 2 | | | | | |
| 34 | 3 | 5 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 50 | 25.1 | 4 | 2 | 3.2 | 3 | 37 | 9 | 3 | 0.2 | 4.1 | 4 | 23 | 7 | 2 | 1 | 9 | 5 | 10 | 6 | 2 | | | | | |
| 35 | 5 | 9 | 2 | 30 | 4 | 5 | 4 | 8 | 3 | 17 | 3 | 4 | 4 | 6 | 4 | 3 | 26.1 | 3 | 4 | 5 | 4 | 49 | 9 | 3 | 3 | 5.3 | 5 | 36 | 8 | 2 | | | | | |
| 36 | 7 | 2.4 | 2 | 58 | 6 | 5 | 6 | 3.2 | 3 | 43 | 5 | 4 | 6 | 4.0 | 4 | 30 | 3 | 3 | 6 | 9 | 5 | 16 | 27.1 | 3 | 5 | 7 | 6 | 2 | 28.0 | 2 | | | | | |
| 37 | 9 | 8 | 3 | 25 | 8 | 20.5 | 8 | 6 | 4 | 11 | 6 | 21.5 | 8 | 4 | 4 | 57 | 5 | 22.4 | 8 | 5.3 | 5 | 42 | 3 | 23.3 | 7 | 6.1 | 6 | 28 | 2 | 24.2 | | | | | |
| 38 | 28.1 | 3.2 | 3 | 53 | 25.0 | 6 | 29.0 | 4.1 | 4 | 38 | 8 | 5 | 11 | 9 | 5 | 24 | 7 | 4 | 1.0 | 7 | 6 | 9 | 6 | 3 | 9 | 6 | 6 | 55 | 4 | 3 | | | | | |
| 39 | 3 | 7 | 4 | 22 | 2 | 6 | 2 | 5 | 5 | 7 | 26.0 | 5 | 0.2 | 5.4 | 5 | 52 | 9 | 4 | 2 | 6.2 | 6 | 37 | 8 | 4 | 2.1 | 7.1 | 7 | 22 | 6 | 3 | | | | | |
| 40 | 5 | 4.2 | 4 | 51 | 5 | 6 | 5 | 5.0 | 5 | 35 | 3 | 6 | 4 | 8 | 6 | 20 | 27.1 | 5 | 4 | 7 | 7 | 5 | 28.0 | 4 | 4 | 5 | 7 | 49 | 8 | 3 | | | | | |
| 41 | 7 | 6 | 5 | 20 | 7 | 20.7 | 7 | 5 | 6 | 5 | 5 | 6 | 7 | 6.3 | 6 | 49 | 3 | 5 | 6 | 7.1 | 7 | 33 | 2 | 4 | 6 | 8.0 | 8 | 18 | 29.0 | 3 | | | | | |
| 42 | 9 | 5.1 | 5 | 50 | 26.0 | 7 | 9 | 6.0 | 6 | 34 | 8 | 21.6 | 9 | 8 | 7 | 18 | 5 | 22.5 | 9 | 6 | 8 | 2 | 4 | 23.4 | 8 | 5 | 8 | 46 | 2 | 24.4 | | | | | |
| 43 | 29.2 | 7 | 6 | 21 | 2 | 7 | 0.2 | 5 | 7 | 4 | 27.0 | 7 | 1.1 | 7.4 | 7 | 48 | 8 | 6 | 2.1 | 8.1 | 8 | 32 | 7 | 5 | 3.1 | 9.0 | 9 | 15 | 4 | 4 | | | | | |
| 44 | 4 | 6.2 | 6 | 52 | 5 | 8 | 4 | 7.0 | 7 | 35 | 3 | 7 | 4 | 9 | 8 | 18 | 28.0 | 6 | 4 | 7 | 9 | 2 | 9 | 5 | 4 | 5 | 9 | 45 | 6 | 4 | | | | | |
| 45 | 6 | 8 | 7 | 24 | 7 | 20.8 | 6 | 6 | 8 | 6 | 5 | 7 | 6 | 8.5 | 8 | 49 | 3 | 6 | 7 | 9.2 | 9 | 32 | 29.1 | 5 | 7 | 10.1 | 10 | 15 | 8 | 4 | | | | | |
| 46 | 9 | 7.3 | 7 | 56 | 27.0 | 8 | 9 | 8.1 | 8 | 38 | 7 | 8 | 9 | 9.0 | 9 | 21 | 5 | 7 | 9 | 8 | 10 | 3 | 3 | 5 | 9 | 7 | 10 | 46 | 0.1 | 5 | | | | | |
| 47 | 0.2 | 9 | 8 | 29 | 3 | 9 | 1.2 | 7 | 9 | 11 | 9 | 21.8 | 2.2 | 6 | 9 | 53 | 7 | 22.7 | 3.2 | 10.4 | 10 | 35 | 5 | 23.6 | 4.2 | 11.2 | 11 | 17 | 3 | 24.5 | | | | | |
| 48 | 5 | 8.5 | 9 | 3 | 5 | 9 | 5 | 9.3 | 9 | 45 | 28.2 | 8 | 5 | 10.2 | 10 | 26 | 29.0 | 7 | 5 | 11.0 | 11 | 8 | 7 | 6 | 5 | 8 | 11 | 49 | 6 | 5 | | | | | |
| 49 | 8 | 9.2 | 9 | 38 | 8 | 21.0 | 8 | 10.0 | 10 | 19 | 5 | 9 | 8 | 8 | 11 | 0 | 3 | 8 | 9 | 6 | 11 | 41 | 11 | 6 | 9 | 12.4 | 12 | 22 | 9 | 5 | | | | | |
| 50 | 1.2 | 8 | 10 | 14 | 28.1 | 0 | 2.2 | 6 | 10 | 54 | 8 | 9 | 3.2 | 11.4 | 11 | 35 | 6 | 8 | 4.2 | 12.2 | 12 | 15 | 0.3 | 6 | 5.2 | 13.0 | 12 | 56 | 1.1 | 5 | | | | | |
| 51 | 6 | 10.5 | 10 | 50 | 4 | 1 | 6 | 11.3 | 11 | 30 | 29.1 | 9 | 6 | 12.1 | 12 | 10 | 9 | 22.8 | 6 | 9 | 12 | 50 | 6 | 7 | 6 | 7 | 13 | 30 | 4 | 6 | | | | | |
| 52 | 2.0 | 11.2 | 11 | 27 | 7 | 1 | 3.0 | 12.0 | 12 | 7 | 4 | 22.0 | 4.0 | 8 | 12 | 46 | 0.2 | 9 | 5.0 | 13.6 | 13 | 26 | 9 | 23.7 | 6.0 | 14.4 | 14 | 5 | 6 | 24.6 | | | | | |
| 53 | 4 | 12.0 | 12 | 6 | 29.0 | 21.2 | 4 | 8 | 12 | 44 | 7 | 0 | 4 | 13.6 | 13 | 23 | 5 | 9 | 4 | 14.4 | 14 | 2 | 1.2 | 7 | 4 | 15.1 | 14 | 41 | 9 | 6 | | | | | |
| 54 | 9 | 8 | 12 | 45 | 3 | 3 | 9 | 13.6 | 13 | 23 | 11 | 1 | 9 | 14.4 | 14 | 1 | 8 | 23.0 | 9 | 15.2 | 14 | 40 | 5 | 8 | 9 | 9 | 15 | 18 | 2.2 | 7 | | | | | |
| 55 | 3.4 | 13.7 | 13 | 25 | 6 | 3 | 4.4 | 14.5 | 14 | 3 | 0.3 | 1 | 5.4 | 15.2 | 14 | 40 | 1.1 | 0 | 6.4 | 16.0 | 15 | 17 | 8 | 8 | 7.4 | 16.7 | 15 | 56 | 5 | 7 | | | | | |
| 56 | 9 | 14.6 | 14 | 6 | 11 | 4 | 9 | 15.4 | 14 | 43 | 7 | 2 | 9 | 16.1 | 15 | 21 | 4 | 1 | 9 | 9 | 15 | 58 | 2.1 | 9 | 8.0 | 17.5 | 16 | 35 | 8 | 7 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

7

| H. M. S. SID. T. 1 44 0 } γ ARC 26° 0'.1 } 28° | | | | | | H. M. S. 1 47 49 } γ 29° 26° 57'.2 } 29° | | | | | | H. M. S. 1 51 38 } γ 30° 27° 54'.5 } 30° | | | | | | H. M. S. 1 55 27 } γ 31° 28° 51'.9 } 31° | | | | | | H. M. S. 1 59 18 } γ 32° 29° 49'.4 } 32° | | | | | | H. M. S. 2 3 8 } γ 33° 30° 47'.1 } 33° | | | | | |
|---|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|---|-----|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | | | | | | |
| 22 | 1.0 | 2.5 | 2 4 | 27.2 | 25.9 | 1.9 | 3.4 | 2 54 | 28.1 | 26.9 | 2.9 | 4.2 | 3 44 | 29.0 | 27.9 | 3.8 | 5.1 | 4 35 | 0.0 | 28.9 | 4.8 | 6.0 | 5 25 | 0.9 | 29.8 | 5.7 | 6.8 | 6 16 | 1.8 | 0.8 | | | | | |
| 23 | 2 | 8 | 2 26 | 4 | 9 | 2.1 | 7 | 3 16 | 3 | 9 | 3.0 | 5 | 4 6 | 2 | 9 | 4.0 | 4 | 4 56 | 1 | 9 | 9 | 3 | 5 47 | 1.0 | 8 | 8 | 7.1 | 6 37 | 9 | 8 | | | | | |
| 24 | 3 | 3.1 | 2 48 | 5 | 9 | 2 | 4.0 | 3 38 | 5 | 9 | 2 | 9 | 4 28 | 4 | 9 | 1 | 7 | 5 18 | 3 | 9 | 5.1 | 6 | 6 8 | 2 | 8 | 6.0 | 5 | 6 58 | 2.1 | 8 | | | | | |
| 25 | 5 | 5 | 3 11 | 7 | 9 | 4 | 3 | 4 0 | 6 | 9 | 3 | 5.2 | 4 50 | 5 | 9 | 3 | 6.0 | 5 40 | 4 | 9 | 2 | 9 | 6 30 | 3 | 8 | 2 | 8 | 7 20 | 2 | 8 | | | | | |
| 26 | 7 | 8 | 3 34 | 9 | 26.0 | 6 | 7 | 4 23 | 8 | 9 | 5 | 5 | 5 12 | 7 | 27.9 | 4 | 4 | 6 2 | 0.6 | 9 | 4 | 7.2 | 6 51 | 5 | 8 | 3 | 8.1 | 7 41 | 3 | 8 | | | | | |
| 27 | 8 | 4.1 | 3 56 | 28.1 | 0 | 7 | 5.0 | 4 45 | 9 | 9 | 6 | 8 | 5 35 | 8 | 9 | 4.6 | 7 | 6 24 | 7 | 28.9 | 5 | 6 | 7 13 | 1.6 | 29.8 | 6.5 | 4 | 8 3 | 5 | 0.8 | | | | | |
| 28 | 2.0 | 5 | 4 20 | 2 | 0 | 9 | 3 | 5 8 | 29.1 | 27.0 | 8 | 6.2 | 5 57 | π | 9 | 8 | 7.0 | 6 46 | 9 | 9 | 7 | 9 | 7 35 | 7 | 8 | 6 | 8 | 8 25 | 2.6 | 8 | | | | | |
| 29 | 1 | 8 | 4 43 | 4 | 0 | 3.0 | 7 | 5 31 | 3 | 0 | 4.0 | 5 | 6 20 | 0.1 | 9 | 9 | 4 | 7 9 | 1.0 | 9 | 9 | 8.2 | 7 58 | 9 | 8 | 8 | 9.1 | 8 47 | 8 | 8 | | | | | |
| 30 | 3 | 5.2 | 5 7 | 6 | 0 | 2 | 6.0 | 5 55 | 4 | 0 | 2 | 9 | 6 43 | 3 | 27.9 | 5.1 | 7 | 7 32 | 2 | 9 | 6.1 | 6 | 8 20 | 2.0 | 8 | 7.0 | 5 | 9 9 | 9 | 8 | | | | | |
| 31 | 5 | 5 | 5 31 | 7 | 26.0 | 4 | 4 | 6 18 | 6 | 0 | 3 | 7.2 | 7 6 | 5 | 9 | 3 | 8.1 | 7 55 | 3 | 9 | 2 | 9 | 8 43 | 2 | 8 | 2 | 8 | 9 31 | 3.1 | 8 | | | | | |
| 32 | 7 | 9 | 5 55 | 9 | 0 | 6 | 7 | 6 42 | 8 | 0 | 5 | 6 | 7 30 | 6 | 9 | 5 | 4 | 8 18 | 5 | 28.9 | 4 | 9.3 | 9 6 | 4 | 29.8 | 4 | 10.2 | 9 54 | 2 | 0.8 | | | | | |
| 33 | 9 | 6.2 | 6 19 | 29.1 | 1 | 8 | 7.1 | 7 6 | 9 | 27.0 | 7 | 8.0 | 7 54 | 8 | 28.0 | 7 | 8 | 8 41 | 6 | 9 | 6 | 7 | 9 29 | 5 | 8 | 6 | 5 | 10 17 | 4 | 8 | | | | | |
| 34 | 3.1 | 6 | 6 44 | 3 | 1 | 4.0 | 5 | 7 31 | 0.1 | 0 | 9 | 3 | 8 18 | 1.0 | 0 | 9 | 9.2 | 9 5 | 8 | 9 | 8 | 10.0 | 9 52 | 7 | 8 | 8 | 9 | 10 40 | 5 | 8 | | | | | |
| 35 | 3 | 7.0 | 7 9 | 5 | 1 | 2 | 9 | 7 55 | 3 | 0 | 5.1 | 7 | 8 42 | 1 | 0 | 6.1 | 6 | 9 29 | 2.0 | 9 | 7.0 | 4 | 10 16 | 8 | 8 | 8.0 | 11.3 | 11 3 | 7 | 8 | | | | | |
| 36 | 5 | 4 | 7 34 | 7 | 26.1 | 4 | 8.3 | 8 20 | 5 | 0 | 3 | 9.1 | 9 7 | 3 | 0 | 3 | 10.0 | 9 54 | 2 | 9 | 2 | 8 | 10 40 | 3.0 | 8 | 2 | 7 | 11 27 | 9 | 8 | | | | | |
| 37 | 7 | 8 | 8 0 | 9 | 1 | 6 | 7 | 8 46 | 6 | 0 | 5 | 5 | 9 32 | 4 | 0 | 5 | 4 | 10 18 | 3 | 28.9 | 4 | 11.2 | 11 4 | 2 | 29.8 | 4 | 12.1 | 11 51 | 4 | 0.8 | | | | | |
| 38 | 9 | 8.3 | 8 26 | π | 1 | 8 | 9.1 | 9 12 | 8 | 27.1 | 7 | 10.0 | 9 57 | 6 | 28.0 | 7 | 8 | 10 43 | 5 | 9 | 6 | 7 | 11 29 | 4 | 8 | 6 | 5 | 12 15 | 1 | 8 | | | | | |
| 39 | 4.1 | 7 | 8 52 | 0.2 | 1 | 5.0 | 6 | 9 38 | 1.0 | 1 | 6.0 | 4 | 10 23 | 8 | 0 | 9 | 11.3 | 11 9 | 7 | 9 | 9 | 12.1 | 11 54 | 5 | 8 | 8 | 9 | 12 40 | 3 | 8 | | | | | |
| 40 | 3 | 9.2 | 9 19 | 4 | 2 | 2 | 10.0 | 10 4 | 2 | 1 | 2 | 9 | 10 49 | 2.0 | 0 | 7.1 | 7 | 11 34 | 9 | 9 | 8.1 | 5 | 12 20 | 7 | 8 | 9.0 | 13.3 | 13 5 | 5 | 8 | | | | | |
| 41 | 5 | 7 | 9 47 | 6 | 26.2 | 5 | 4 | 10 31 | 4 | 1 | 4 | 11.3 | 11 16 | 2 | 0 | 4 | 12.2 | 12 1 | 3.1 | 9 | 4 | 13.0 | 12 46 | 9 | 8 | 3 | 7 | 13 31 | 7 | 8 | | | | | |
| 42 | 8 | 10.2 | 10 14 | 8 | 2 | 7 | 9 | 10 59 | 6 | 1 | 7 | 8 | 11 43 | 4 | 0 | 7 | 7 | 12 27 | 2 | 28.9 | 6 | 5 | 13 12 | 4.1 | 29.8 | 6 | 14.2 | 13 57 | 8 | 0.8 | | | | | |
| 43 | 5.0 | 7 | 10 43 | 1.0 | 2 | 6.0 | 11.4 | 11 26 | 8 | 27.1 | 7.0 | 12.3 | 12 10 | 6 | 28.0 | 9 | 13.2 | 12 55 | 4 | 9 | 9 | 14.0 | 13 39 | 3 | 8 | 9 | 7 | 14 23 | 5.0 | 8 | | | | | |
| 44 | 3 | 11.2 | 11 12 | 2 | 2 | 3 | 9 | 11 55 | 2.0 | 1 | 3 | 9 | 12 38 | 8 | 0 | 8.2 | 7 | 13 22 | 6 | 9 | 9.2 | 5 | 14 6 | 4 | 8 | 10.1 | 15.2 | 14 50 | 2 | 8 | | | | | |
| 45 | 5 | 7 | 11 41 | 4 | 2 | 5 | 12.5 | 12 24 | 2 | 1 | 5 | 13.4 | 13 7 | 3.0 | 0 | 5 | 14.2 | 13 50 | 8 | 9 | 4 | 15.0 | 14 33 | 6 | 8 | 4 | 7 | 15 17 | 4 | 8 | | | | | |
| 46 | 8 | 12.3 | 12 11 | 6 | 26.2 | 8 | 13.0 | 12 53 | 4 | 1 | 8 | 9 | 13 36 | 2 | 0 | 8 | 7 | 14 19 | 4.0 | 9 | 7 | 5 | 15 2 | 8 | 8 | 7 | 16.3 | 15 45 | 6 | 8 | | | | | |
| 47 | 6.1 | 9 | 12 41 | 8 | 3 | 7.1 | 6 | 13 23 | 7 | 2 | 8.1 | 14.5 | 14 6 | 4 | 0 | 9.1 | 15.3 | 14 48 | 3 | 28.9 | 10.0 | 16.1 | 15 30 | 5.0 | 29.8 | 11.0 | 9 | 16 13 | 8 | 0.7 | | | | | |
| 48 | 4 | 13.4 | 13 12 | 2.0 | 3 | 4 | 14.2 | 13 54 | 9 | 27.2 | 4 | 15.1 | 14 36 | 6 | 28.0 | 4 | 9 | 15 18 | 5 | 9 | 3 | 7 | 16 0 | 2 | 8 | 3 | 17.5 | 16 42 | 6 | 0 | | | | | |
| 49 | 7 | 14.0 | 13 44 | 3 | 3 | 7 | 8 | 14 26 | 3.2 | 2 | 8 | 6 | 15 7 | 8 | 0 | 7 | 16.4 | 15 48 | 7 | 9 | 6 | 17.2 | 16 30 | 4 | 8 | 6 | 18.0 | 17 11 | 2 | 7 | | | | | |
| 50 | 7.1 | 6 | 14 17 | 6 | 3 | 8.1 | 15.4 | 14 58 | 4 | 2 | 9.1 | 16.2 | 15 39 | 4.1 | 0 | 10.1 | 17.0 | 16 19 | 9 | 9 | 11.0 | 8 | 17 0 | 6 | 8 | 12.0 | 6 | 17 41 | 4 | 7 | | | | | |
| 51 | 5 | 15.3 | 14 50 | 8 | 26.3 | 5 | 16.1 | 15 31 | 6 | 2 | 5 | 8 | 16 11 | 3 | 1 | 5 | 7 | 16 51 | 5.1 | 29.0 | 4 | 18.5 | 17 32 | 8 | 8 | 4 | 19.2 | 18 12 | 6 | 7 | | | | | |
| 52 | 9 | 16.0 | 15 25 | 3.0 | 4 | 9 | 8 | 16 4 | 8 | 27.2 | 9 | 17.5 | 16 44 | 5 | 28.1 | 9 | 18.4 | 17 24 | 3 | 0 | 8 | 19.2 | 18 4 | 6 | 0 | 29.8 | 8 | 9 | 18 44 | 8 | 0.7 | | | | |
| 53 | 8.3 | 7 | 16 0 | 3 | 4 | 9.3 | 17.5 | 16 39 | 4.0 | 2 | 10.3 | 18.2 | 17 18 | 7 | 1 | 11.3 | 19.1 | 17 57 | 6 | 0 | 12.3 | 9 | 18 37 | 2 | 8 | 13.2 | 20.6 | 19 16 | 7.0 | 7 | | | | | |
| 54 | 8 | 17.5 | 16 35 | 6 | 4 | 8 | 18.2 | 17 14 | 3 | 2 | 8 | 19.0 | 17 52 | 5.0 | 1 | 8 | 8 | 18 31 | 8 | 0 | 8 | 20.6 | 19 10 | 5 | 8 | 7 | 21.3 | 19 49 | 2 | 7 | | | | | |
| 55 | 9.3 | 18.3 | 17 12 | 9 | 4 | 10.3 | 19.0 | 17 50 | 6 | 2 | 11.3 | 8 | 18 28 | 3 | 1 | 12.3 | 20.5 | 19 6 | 6.1 | 0 | 13.3 | 21.3 | 19 45 | 8 | 8 | 14.2 | 22.1 | 20 23 | 5 | 7 | | | | | |
| 56 | 9 | 19.1 | 17 50 | 4.2 | 5 | 9 | 8 | 18 27 | 9 | 3 | 9 | 20.6 | 19 5 | 6 | 2 | 9 | 21.3 | 19 42 | 4 | 0 | 9 | 22.1 | 20 20 | 7 | 0 | 8 | 8 | 9 | 20 58 | 7 | 7 | | | | |

| H. M. S. SID. T. 2 3 8 } 5 ARC 30° 47'.1 } 3° | | | | | | H. M. S. 2 7 0 } 4° 31° 44'.9 } 4° | | | | | | H. M. S. 2 10 52 } 5° 32° 42'.9 } 5° | | | | | | H. M. S. 2 14 44 } 6° 33° 41' } 6° | | | | | | H. M. S. 2 18 37 } 7° 34° 39'.4 } 7° | | | | | | H. M. S. 2 22 31 } 8° 35° 37'.8 } 8° | | | | | |
|---|------|------|-------|-----|-----|--|------|-------|-----|-----|------|--|-------|-----|-----|------|------|--|-----|-----|------|------|-------|--|-----|------|------|-------|------|--|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ |
| 22 | 5.7 | 6.8 | 6 16 | 1.8 | 0.8 | 6.7 | 7.7 | 7 7 | 2.7 | 1.8 | 7.6 | 8.6 | 7 58 | 3.6 | 2.8 | 8.6 | 9.5 | 8 49 | 4.5 | 3.8 | 9.5 | 10.4 | 9 41 | 5.5 | 4.8 | 10.4 | 11.2 | 10 33 | 6.4 | 5.8 | | | | | |
| 23 | 8 | 7.1 | 6 37 | 9 | 8 | 8 | 8.0 | 7 28 | 8 | 8 | 8 | 9 | 8 19 | 8 | 8 | 7 | 8 | 9 10 | 7 | 8 | 6 | 7 10 | 1 | 6 | 8 | 6 | 5 | 10 53 | 5 | 8 | | | | | |
| 24 | 6.0 | 5 | 6 58 | 2.1 | 8 | 7.0 | 3 | 7 49 | 3.0 | 8 | 9 | 9.2 | 8 40 | 9 | 8 | 9 | 10.1 | 9 30 | 8 | 8 | 8 | 11.0 | 10 21 | 7 | 8 | 7 | 8 | 11 12 | 6 | 8 | | | | | |
| 25 | 2 | 8 | 7 20 | 2 | 8 | 2 | 6 | 8 10 | 1 | 8 | 8.1 | 5 | 9 0 | 4.0 | 8 | 9.0 | 4 | 9 51 | 9 | 8 | 10.0 | 3 | 10 42 | 8 | 8 | 9 | 12.1 | 11 32 | 8 | 8 | | | | | |
| 26 | 3 | 8.1 | 7 41 | 3 | 8 | 3 | 9.0 | 8 31 | 2 | 8 | 2 | 8 | 9 21 | 1 | 8 | 2 | 7 | 10 12 | 5.1 | 8 | 1 | 6 11 | 2 | 6.0 | 7 | 11.1 | 5 | 11 53 | 9 | 7 | | | | | |
| 27 | 6.5 | 4 | 8 3 | 5 | 0.8 | 5 | 3 | 8 53 | 4 | 1.8 | 4 | 10.2 | 9 43 | 3 | 2.8 | 4 | 11.0 | 10 32 | 2 | 3.7 | 3 | 9 | 11 23 | 1 | 4.7 | 2 | 8 | 12 13 | 7.0 | 5.7 | | | | | |
| 28 | 6 | 8 | 8 25 | 2.6 | 8 | 6 | 6 | 9 14 | 3.5 | 8 | 6 | 5 | 10 4 | 4 | 8 | 5 | 4 | 10 53 | 3 | 7 | 5 | 12.2 | 11 43 | 2 | 7 | 4 | 13.1 | 12 33 | 1 | 7 | | | | | |
| 29 | 8 | 9.1 | 8 47 | 8 | 8 | 8 | 10.0 | 9 36 | 7 | 8 | 8 | 8 | 10 25 | 4.6 | 8 | 7 | 7 | 11 14 | 5 | 7 | 6 | 6 12 | 4 | 3 | 7 | 6 | 4 | 12 54 | 2 | 7 | | | | | |
| 30 | 7.0 | 5 | 9 9 | 9 | 8 | 8.0 | 3 | 9 58 | 8 | 8 | 9 | 11.2 | 10 47 | 7 | 7 | 9 | 12.0 | 11 36 | 5.6 | 7 | 8 | 9 | 12 25 | 6.5 | 7 | 8 | 8 | 13 14 | 4 | 7 | | | | | |
| 31 | 2 | 8 | 9 31 | 3.1 | 8 | 2 | 7 | 10 20 | 9 | 8 | 9.1 | 5 | 11 9 | 8 | 7 | 10.1 | 4 | 11 57 | 7 | 7 | 11.0 | 13.2 | 12 46 | 6 | 7 | 9 | 14.1 | 13 35 | 7.5 | 6 | | | | | |
| 32 | 4 | 10.2 | 9 54 | 2 | 0.8 | 4 | 11.0 | 10 42 | 4.1 | 1.8 | 3 | 9 | 11 31 | 5.0 | 2.7 | 2 | 7 | 12 19 | 9 | 3.7 | 2 | 6 | 13 8 | 7 | 4.7 | 12.1 | 4 | 13 56 | 6 | 5.6 | | | | | |
| 33 | 6 | 5 | 10 17 | 4 | 8 | 5 | 4 | 11 5 | 2 | 8 | 5 | 12.2 | 11 53 | 1 | 7 | 4 | 13.1 | 12 41 | 6.0 | 7 | 4 | 9 | 13 29 | 9 | 6 | 3 | 8 | 14 18 | 8 | 6 | | | | | |
| 34 | 8 | 9 | 10 40 | 5 | 8 | 7 | 8 | 11 28 | 4 | 8 | 7 | 6 | 12 15 | 3 | 7 | 6 | 5 | 13 3 | 1 | 7 | 6 | 14.3 | 13 51 | 7.0 | 6 | 5 | 15.2 | 14 39 | 9 | 6 | | | | | |
| 35 | 8.0 | 11.3 | 11 3 | 7 | 8 | 9 | 12.2 | 11 51 | 6 | 7 | 9 | 13.0 | 12 38 | 4 | 7 | 8 | 9 | 13 25 | 3 | 6 | 8 | 7 | 14 13 | 2 | 6 | 7 | 6 | 15 1 | 8.0 | 6 | | | | | |
| 36 | 2 | 7 | 11 27 | 9 | 8 | 9.1 | 6 | 12 14 | 7 | 7 | 10.1 | 4 | 13 1 | 5.6 | 7 | 11.0 | 14.3 | 13 48 | 4 | 6 | 12.0 | 15.1 | 14 35 | 3 | 6 | 9 | 9 | 15 23 | 2 | 5 | | | | | |
| 37 | 4 | 12.1 | 11 51 | 4.0 | 0.8 | 3 | 13.0 | 12 38 | 9 | 1.7 | 3 | 8 | 13 24 | 7 | 2.7 | 2 | 7 | 14 11 | 6.6 | 3.6 | 2 | 5 | 14 58 | 5 | 4.6 | 13.1 | 16.3 | 15 45 | 3 | 5.5 | | | | | |
| 38 | 6 | 5 | 12 15 | 1 | 8 | 6 | 4 | 13 2 | 5.0 | 7 | 5 | 14.2 | 13 48 | 9 | 7 | 5 | 15.1 | 14 34 | 8 | 6 | 4 | 9 | 15 21 | 7.6 | 6 | 3 | 7 | 16 8 | 4 | 5 | | | | | |
| 39 | 8 | 9 | 12 40 | 3 | 8 | 8 | 8 | 13 26 | 2 | 7 | 7 | 6 | 14 12 | 6.1 | 7 | 7 | 5 | 14 58 | 9 | 6 | 6 | 16.3 | 15 44 | 8 | 5 | 6 | 17.2 | 16 31 | 8.5 | 5 | | | | | |
| 40 | 9.0 | 13.3 | 13 5 | 5 | 8 | 10.0 | 14.2 | 13 51 | 4 | 7 | 11.0 | 15.1 | 14 36 | 2 | 7 | 9 | 9 | 15 22 | 7.0 | 6 | 9 | 7 | 16 8 | 9 | 5 | 8 | 6 | 16 54 | 7 | 5 | | | | | |
| 41 | 3 | 7 | 13 31 | 7 | 8 | 3 | 7 | 14 16 | 6 | 7 | 2 | 5 | 15 1 | 4 | 6 | 12.2 | 16.3 | 15 46 | 1 | 6 | 13.1 | 17.2 | 16 32 | 8.1 | 5 | 14.1 | 18.0 | 17 17 | 8 | 4 | | | | | |
| 42 | 6 | 14.2 | 13 57 | 8 | 0.8 | 5 | 15.1 | 14 41 | 8 | 1.7 | 5 | 16.0 | 15 26 | 6 | 2.6 | 4 | 8 | 16 11 | 3 | 3.5 | 4 | 6 | 16 56 | 2 | 4.5 | 3 | 5 | 17 41 | 9.0 | 5.4 | | | | | |
| 43 | 9 | 7 | 14 23 | 5.0 | 8 | 8 | 6 | 15 7 | 9 | 7 | 8 | 4 | 15 52 | 8 | 6 | 7 | 17.3 | 16 36 | 5 | 5 | 7 | 18.1 | 17 21 | 4 | 5 | 6 | 9 | 18 5 | 1 | 4 | | | | | |
| 44 | 10.1 | 15.2 | 14 50 | 2 | 8 | 11.1 | 16.1 | 15 34 | 6.1 | 7 | 12.1 | 9 | 16 18 | 9 | 6 | 13.0 | 7 | 17 2 | 7 | 5 | 14.0 | 6 | 17 46 | 5 | 4 | 9 | 19.4 | 18 30 | 3 | 4 | | | | | |
| 45 | 4 | 7 | 15 17 | 4 | 8 | 4 | 6 | 16 0 | 2 | 7 | 4 | 17.4 | 16 44 | 7.0 | 6 | 3 | 18.2 | 17 28 | 8 | 5 | 3 | 19.1 | 18 12 | 6 | 4 | 15.2 | 9 | 18 55 | 5 | 3 | | | | | |
| 46 | 7 | 16.3 | 15 45 | 6 | 8 | 7 | 17.1 | 16 28 | 4 | 7 | 7 | 9 | 17 11 | 2 | 6 | 6 | 7 | 17 54 | 8.0 | 5 | 6 | 6 | 18 38 | 7 | 4 | 5 | 20.4 | 19 21 | 6 | 3 | | | | | |
| 47 | 11.0 | 9 | 16 13 | 8 | 0.7 | 12.0 | 7 | 16 56 | 6 | 1.7 | 13.0 | 18.5 | 17 38 | 4 | 2.6 | 9 | 19.3 | 18 21 | 1 | 3.5 | 9 | 20.1 | 19 4 | 9 | 4.4 | 8 | 9 | 19 47 | 8 | 5.3 | | | | | |
| 48 | 3 | 17.5 | 16 42 | 6.0 | 7 | 3 | 18.2 | 17 24 | 8 | 6 | 3 | 19.0 | 18 6 | 5 | 6 | 14.2 | 8 | 18 48 | 3 | 4 | 15.2 | 7 | 19 31 | 9.1 | 3 | 16.1 | 21.5 | 20 14 | 10.0 | 3 | | | | | |
| 49 | 6 | 18.0 | 17 11 | 2 | 7 | 6 | 8 | 17 53 | 7.0 | 6 | 6 | 6 | 18 35 | 7 | 5 | 5 | 20.4 | 19 16 | 5 | 4 | 5 | 21.2 | 19 58 | 3 | 3 | 4 | 22.0 | 20 41 | 2 | 2 | | | | | |
| 50 | 12.0 | 6 | 17 41 | 4 | 7 | 13.0 | 19.4 | 18 22 | 2 | 6 | 9 | 20.2 | 19 4 | 9 | 5 | 9 | 21.0 | 19 45 | 7 | 4 | 8 | 8 | 20 27 | 5 | 3 | 8 | 6 | 21 8 | 3 | 2 | | | | | |
| 51 | 4 | 19.2 | 18 12 | 6 | 7 | 4 | 20.0 | 18 53 | 4 | 6 | 14.3 | 8 | 19 33 | 8.1 | 5 | 15.3 | 6 | 20 14 | 9 | 4 | 16.2 | 22.4 | 20 55 | 7 | 3 | 17.2 | 23.2 | 21 36 | 4 | 2 | | | | | |
| 52 | 8 | 9 | 18 44 | 8 | 0.7 | 8 | 7 | 19 24 | 6 | 1.6 | 7 | 21.5 | 20 4 | 3 | 2.5 | 7 | 22.3 | 20 44 | 9.1 | 3.4 | 6 | 23.0 | 21 25 | 9 | 4.2 | 6 | 8 | 22 5 | 6 | 5.2 | | | | | |
| 53 | 13.2 | 20.6 | 19 16 | 7.0 | 7 | 14.2 | 21.4 | 19 55 | 8 | 6 | 15.2 | 22.2 | 20 35 | 5 | 5 | 16.1 | 9 | 21 15 | 3 | 3 | 17.1 | 7 | 21 55 | 10.1 | 2 | 18.0 | 24.4 | 22 35 | 8 | 1 | | | | | |
| 54 | 7 | 21.3 | 19 49 | 2 | 7 | 7 | 22.1 | 20 28 | 8.0 | 6 | 7 | 9 | 21 7 | 7 | 5 | 6 | 23.6 | 21 47 | 5 | 3 | 6 | 24.4 | 22 26 | 3 | 2 | 4 | 25.1 | 23 5 | 11.0 | 1 | | | | | |
| 55 | 14.2 | 22.1 | 20 23 | 5 | 7 | 15.2 | 8 | 21 1 | 3 | 6 | 16.2 | 23.6 | 21 40 | 9.0 | 4 | 17.1 | 24.3 | 22 19 | 7 | 3 | 18.1 | 25.1 | 22 58 | 5 | 2 | 19.0 | 8 | 23 36 | 2 | 1 | | | | | |
| 56 | 8 | 9 | 20 58 | 7 | 7 | 8 | 23.6 | 21 36 | 5 | 6 | 8 | 24.4 | 22 14 | 2 | 4 | 7 | 25.0 | 22 52 | 9 | 3 | 7 | 8 | 23 30 | 8 | 1 | 5 | 26.5 | 24 8 | 4 | 1 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

9

| H. M. S. SID. T. 2 26 26 } 8 ARC 36° 36'5 } 9° | | | | | H. M. S. 2 30 21 } 8 10° 37° 35'3 } 8 10° | | | | | H. M. S. 2 34 17 } 8 11° 38° 34'3 } 8 11° | | | | | H. M. S. 2 38 14 } 8 12° 39° 33'4 } 8 12° | | | | | H. M. S. 2 42 11 } 8 13° 40° 32'8 } 8 13° | | | | | H. M. S. 2 46 9 } 8 14° 41° 32'3 } 8 14° | | | | | |
|--|------|------|-------|------|---|------|------|-------|------|---|------|------|-------|------|---|------|------|-------|------|---|------|------|-------|------|--|------|------|-------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' |
| 22 | 11.3 | 12.1 | 11 25 | 7.3 | 6.8 | 12.3 | 13.0 | 12 17 | 8.3 | 7.8 | 13.2 | 13.9 | 13 9 | 9.2 | 8.8 | 14.1 | 14.8 | 14 1 | 10.2 | 9.8 | 15.1 | 15.7 | 14 54 | 11.1 | 10.8 | 16.0 | 16.5 | 15 47 | 12.1 | 11.8 |
| 23 | 5 | 4 | 11 44 | 4 | 8 | 4 | 3 | 12 36 | 4 | 8 | 4 | 14.2 | 13 28 | 3 | 8 | 3 | 15.1 | 14 20 | 3 | 8 | 2 | 16.0 | 15 12 | 2 | 8 | 2 | 8 | 16 5 | 1 | 8 |
| 24 | 7 | 7 | 12 4 | 6 | 7 | 6 | 6 | 12 55 | 5 | 7 | 5 | 5 | 13 47 | 4 | 8 | 5 | 4 | 14 39 | 4 | 7 | 4 | 3 | 15 30 | 3 | 7 | 3 | 17.1 | 16 23 | 2 | 7 |
| 25 | 8 | 13.0 | 12 23 | 7 | 7 | 8 | 9 | 13 14 | 6 | 7 | 7 | 8 | 14 6 | 5 | 7 | 6 | 7 | 14 57 | 5 | 7 | 5 | 6 | 15 49 | 4 | 7 | 5 | 4 | 16 41 | 3 | 7 |
| 26 | 12.0 | 3 | 12 43 | 8 | 7 | 9 | 14.2 | 13 34 | 8.7 | 7 | 9 | 15.1 | 14 25 | 9.6 | 7 | 8 | 16.0 | 15 16 | 10.6 | 7 | 7 | 9 | 16 8 | 5 | 7 | 6 | 7 | 16 59 | 4 | 7 |
| 27 | 2 | 6 | 13 3 | 9 | 6.7 | 13.1 | 5 | 13 54 | 8 | 7.7 | 14.0 | 4 | 14 44 | 8 | 8.7 | 15.0 | 3 | 15 35 | 7 | 9.7 | 9 | 17.2 | 16 26 | 11.6 | 10.7 | 8 | 18.0 | 17 18 | 12.5 | 11.6 |
| 28 | 3 | 14.0 | 13 23 | 8.0 | 7 | 3 | 8 | 14 13 | 9 | 7 | 2 | 7 | 15 4 | 9 | 6 | 1 | 6 | 15 54 | 8 | 6 | 16.1 | 5 | 16 45 | 7 | 6 | 17.0 | 4 | 17 36 | 6 | 6 |
| 29 | 5 | 3 | 13 43 | 2 | 6 | 4 | 15.2 | 14 33 | 9.1 | 6 | 4 | 16.0 | 15 23 | 10.0 | 6 | 3 | 9 | 16 14 | 9 | 6 | 2 | 8 | 17 4 | 8 | 6 | 2 | 7 | 17 55 | 7 | 6 |
| 30 | 7 | 6 | 14 4 | 3 | 6 | 6 | 5 | 14 53 | 2 | 6 | 6 | 4 | 15 43 | 1 | 6 | 5 | 17.2 | 16 33 | 11.0 | 6 | 4 | 18.1 | 17 23 | 9 | 5 | 3 | 19.0 | 18 13 | 8 | 5 |
| 31 | 9 | 15.0 | 14 24 | 4 | 6 | 8 | 8 | 15 14 | 3 | 6 | 7 | 7 | 16 3 | 2 | 6 | 7 | 6 | 16 53 | 1 | 5 | 6 | 4 | 17 42 | 12.0 | 5 | 5 | 3 | 18 32 | 9 | 5 |
| 32 | 13.1 | 3 | 14 45 | 8.5 | 6.6 | 14.0 | 16.2 | 15 34 | 4 | 7.6 | 9 | 17.0 | 16 23 | 3 | 8.5 | 9 | 9 | 17 13 | 2 | 9.5 | 8 | 8 | 18 2 | 1 | 10.5 | 7 | 7 | 18 52 | 13.0 | 11.4 |
| 33 | 3 | 7 | 15 6 | 7 | 6 | 2 | 5 | 15 55 | 9.5 | 5 | 15.1 | 4 | 16 43 | 4 | 5 | 16.1 | 18.3 | 17 33 | 3 | 5 | 17.0 | 19.1 | 18 21 | 2 | 4 | 9 | 20.0 | 19 11 | 1 | 4 |
| 34 | 5 | 16.0 | 15 27 | 8 | 5 | 4 | 9 | 16 16 | 6 | 5 | 3 | 7 | 17 4 | 10.5 | 5 | 3 | 6 | 17 53 | 4 | 4 | 2 | 5 | 18 41 | 3 | 4 | 18.1 | 3 | 19 30 | 2 | 4 |
| 35 | 7 | 4 | 15 49 | 9 | 5 | 6 | 17.3 | 16 37 | 8 | 5 | 5 | 18.1 | 17 25 | 7 | 4 | 5 | 19.0 | 18 13 | 11.5 | 4 | 4 | 9 | 19 1 | 4 | 4 | 3 | 7 | 19 50 | 3 | 3 |
| 36 | 9 | 8 | 16 10 | 9.1 | 5 | 8 | 6 | 16 58 | 9 | 5 | 7 | 5 | 17 46 | 8 | 4 | 7 | 4 | 18 34 | 7 | 9.4 | 6 | 20.2 | 19 22 | 12.5 | 3 | 5 | 21.1 | 20 10 | 4 | 3 |
| 37 | 14.1 | 17.2 | 16 32 | 2 | 6.5 | 15.0 | 18.0 | 17 20 | 10.0 | 7.4 | 9 | 9 | 18 7 | 9 | 8.4 | 9 | 7 | 18 55 | 8 | 3 | 8 | 6 | 19 42 | 7 | 10.3 | 8 | 5 | 20 30 | 13.5 | 11.2 |
| 38 | 3 | 6 | 16 55 | 3 | 4 | 2 | 4 | 17 41 | 1 | 4 | 16.2 | 19.3 | 18 29 | 11.0 | 3 | 17.1 | 20.1 | 19 16 | 9 | 3 | 18.0 | 21.0 | 20 3 | 8 | 2 | 19.0 | 9 | 20 51 | 6 | 2 |
| 39 | 5 | 18.0 | 17 17 | 5 | 4 | 5 | 8 | 18 4 | 2 | 4 | 4 | 7 | 18 50 | 2 | 3 | 3 | 5 | 19 37 | 12.0 | 3 | 3 | 4 | 20 24 | 9 | 2 | 2 | 22.3 | 21 12 | 8 | 2 |
| 40 | 8 | 4 | 17 40 | 9.6 | 4 | 7 | 19.3 | 18 26 | 4 | 3 | 6 | 20.1 | 19 12 | 3 | 3 | 6 | 9 | 19 59 | 2 | 9.2 | 5 | 8 | 20 45 | 13.0 | 2 | 5 | 7 | 21 33 | 9 | 1 |
| 41 | 15.0 | 9 | 18 3 | 8 | 4 | 16.0 | 7 | 18 49 | 10.5 | 7.3 | 9 | 5 | 19 35 | 4 | 8.2 | 8 | 21.4 | 20 21 | 3 | 2 | 8 | 22.2 | 21 7 | 1 | 1 | 7 | 23.1 | 21 54 | 14.0 | 11.1 |
| 42 | 3 | 19.3 | 18 26 | 9 | 6.3 | 2 | 20.1 | 19 12 | 6 | 3 | 17.2 | 21.0 | 19 58 | 11.6 | 2 | 18.1 | 8 | 20 43 | 4 | 1 | 19.0 | 6 | 21 29 | 3 | 10.1 | 20.0 | 5 | 22 15 | 1 | 0 |
| 43 | 5 | 8 | 18 50 | 10.1 | 3 | 5 | 6 | 19 36 | 8 | 2 | 4 | 4 | 20 21 | 7 | 2 | 4 | 22.2 | 21 6 | 12.5 | 1 | 3 | 23.1 | 21 51 | 4 | 0 | 2 | 9 | 22 37 | 2 | 0 |
| 44 | 8 | 20.2 | 19 15 | 2 | 3 | 8 | 21.1 | 19 59 | 9 | 2 | 7 | 9 | 20 44 | 8 | 1 | 7 | 7 | 21 29 | 6 | 9.1 | 6 | 5 | 22 14 | 13.5 | 0 | 5 | 24.4 | 22 59 | 3 | 0 |
| 45 | 16.1 | 7 | 19 39 | 3 | 2 | 17.1 | 6 | 20 24 | 11.1 | 7.2 | 18.0 | 22.4 | 21 8 | 9 | 8.1 | 19.0 | 23.2 | 21 52 | 7 | 0 | 9 | 24.0 | 22 37 | 6 | 0 | 8 | 9 | 23 22 | 4 | 10.9 |
| 46 | 4 | 21.2 | 20 5 | 4 | 2 | 4 | 22.1 | 20 48 | 2 | 1 | 3 | 9 | 21 32 | 12.1 | 1 | 3 | 7 | 22 16 | 9 | 0 | 20.2 | 5 | 23 0 | 7 | 9.9 | 21.1 | 25.3 | 23 45 | 14.5 | 9 |
| 47 | 8 | 8 | 20 30 | 10.6 | 6.2 | 7 | 6 | 21 13 | 4 | 1 | 6 | 23.4 | 21 57 | 2 | 0 | 6 | 24.2 | 22 40 | 13.0 | 0 | 5 | 25.0 | 23 24 | 8 | 9 | 4 | 8 | 24 8 | 6 | 8 |
| 48 | 17.1 | 22.3 | 20 56 | 8 | 2 | 18.0 | 23.1 | 21 39 | 6 | 1 | 19.0 | 9 | 22 22 | 4 | 0 | 9 | 7 | 23 5 | 2 | 8.9 | 8 | 4 | 23 48 | 14.0 | 9 | 8 | 26.2 | 24 32 | 8 | 8 |
| 49 | 4 | 9 | 21 23 | 9 | 1 | 3 | 6 | 22 5 | 7 | 7.1 | 3 | 24.4 | 22 48 | 5 | 7.9 | 20.3 | 25.2 | 23 30 | 3 | 9 | 21.1 | 9 | 24 13 | 1 | 8 | 22.1 | 7 | 24 56 | 9 | 10.7 |
| 50 | 7 | 23.4 | 21 50 | 11.1 | 1 | 7 | 24.2 | 22 32 | 9 | 0 | 6 | 9 | 23 14 | 7 | 9 | 6 | 7 | 23 56 | 5 | 9 | 5 | 26.5 | 24 38 | 3 | 8 | 5 | 27.3 | 25 21 | 15.1 | 7 |
| 51 | 18.1 | 24.0 | 22 18 | 3 | 1 | 19.1 | 8 | 22 59 | 12.1 | 0 | 20.0 | 25.5 | 23 41 | 9 | 9 | 21.0 | 26.3 | 24 23 | 13.6 | 8 | 9 | 27.1 | 25 4 | 4 | 9.7 | 9 | 9 | 25 46 | 2 | 6 |
| 52 | 5 | 6 | 22 46 | 4 | 6.1 | 5 | 25.4 | 23 27 | 2 | 0 | 4 | 26.1 | 24 8 | 13.0 | 8 | 4 | 9 | 24 50 | 7 | 8.8 | 22.4 | 7 | 25 30 | 14.5 | 7 | 23.3 | 28.5 | 26 12 | 3 | 6 |
| 53 | 19.0 | 25.2 | 23 15 | 6 | 0 | 9 | 26.0 | 23 56 | 3 | 6.9 | 9 | 7 | 24 36 | 1 | 7.8 | 9 | 27.5 | 25 17 | 8 | 7 | 8 | 28.3 | 25 57 | 6 | 6 | 7 | 29.1 | 26 38 | 4 | 10.5 |
| 54 | 5 | 9 | 23 45 | 8 | 0 | 20.4 | 6 | 24 25 | 5 | 9 | 21.4 | 27.4 | 25 5 | 3 | 8 | 22.3 | 28.1 | 25 45 | 14.0 | 7 | 23.3 | 9 | 26 25 | 8 | 6 | 24.2 | 7 | 27 5 | 6 | 5 |
| 55 | 20.0 | 26.6 | 24 16 | 12.0 | 0 | 9 | 27.3 | 24 55 | 7 | 9 | 9 | 28.1 | 25 34 | 5 | 7 | 8 | 8 | 26 13 | 2 | 6 | 8 | 29.6 | 26 53 | 15.0 | 5 | 7 | 0.3 | 27 33 | 8 | 4 |
| 56 | 6 | 27.3 | 24 47 | 2 | 5.9 | 21.5 | 28.0 | 25 25 | 9 | 8 | 22.4 | 8 | 26 4 | 7 | 7 | 23.4 | 29.5 | 26 43 | 4 | 5 | 24.4 | 0.3 | 27 22 | 2 | 5 | 25.3 | 1 | 28 1 | 16.0 | 4 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 2 46 9 } 8 ARC 41° 32' 3 } 14° | | | | | | H. M. S. 2 50 8 } 8 15° 42° 32' 0 } | | | | | | H. M. S. 2 54 7 } 8 16° 43° 31' 8 } | | | | | | H. M. S. 2 58 7 } 8 17° 44° 31' 9 } | | | | | | H. M. S. 3 2 8 } 8 18° 45° 32' 1 } | | | | | | H. M. S. 3 6 10 } 8 19° 46° 32' 5 } | | | | | |
|---|------|------|-------|------|------|---|------|-------|------|------|------|---|-------|------|------|------|-------|---|------|------|------|-------|-------|--|------|------|-------|-------|------|---|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | Π | ♊ | ♈ | ♏ | ♎ | | | | | |
| 22 | 16.0 | 16.5 | 15.47 | 12.1 | 11.8 | 16.9 | 17.4 | 16.40 | 13.0 | 12.8 | 17.9 | 18.3 | 17.33 | 14.0 | 13.8 | 18.8 | 19.2 | 18.27 | 14.9 | 14.9 | 19.7 | 20.1 | 19.20 | 15.9 | 15.9 | 20.7 | 21.0 | 20.14 | 16.9 | 16.9 | | | | | |
| 23 | 2 | 8 | 16.5 | 1 | 8 | 17.1 | 7 | 16.57 | 1 | 8 | 18.0 | 6 | 17.51 | 1 | 8 | 19.0 | 5 | 18.44 | 15.0 | 8 | 9 | 4 | 19.37 | 16.0 | 8 | 8 | 3 | 20.31 | 9 | 8 | | | | | |
| 24 | 3 | 17.1 | 16.23 | 2 | 7 | 2 | 18.0 | 17.15 | 2 | 8 | 2 | 9 | 18.8 | 1 | 8 | 1 | 8 | 19.1 | 1 | 8 | 20.1 | 7 | 19.54 | 0 | 8 | 21.0 | 6 | 20.48 | 17.0 | 8 | | | | | |
| 25 | 5 | 4 | 16.41 | 3 | 7 | 4 | 3 | 17.33 | 3 | 7 | 3 | 19.2 | 18.26 | 2 | 7 | 3 | 20.1 | 19.18 | 2 | 7 | 2 | 21.0 | 20.11 | 1 | 7 | 2 | 9 | 21.4 | 1 | 7 | | | | | |
| 26 | 6 | 7 | 16.59 | 4 | 7 | 6 | 6 | 17.51 | 13.4 | 7 | 5 | 5 | 18.43 | 14.3 | 7 | 4 | 4 | 19.35 | 3 | 7 | 4 | 3 | 20.28 | 2 | 7 | 3 | 22.2 | 21.21 | 1 | 7 | | | | | |
| 27 | 8 | 18.0 | 17.18 | 12.5 | 11.6 | 7 | 9 | 18.9 | 4 | 12.6 | 7 | 8 | 19.1 | 4 | 13.6 | 6 | 7 | 19.53 | 15.3 | 14.6 | 6 | 6 | 20.45 | 3 | 15.6 | 5 | 5 | 21.38 | 2 | 16.6 | | | | | |
| 28 | 17.0 | 4 | 17.36 | 6 | 6 | 9 | 19.2 | 18.27 | 5 | 6 | 9 | 20.1 | 19.19 | 5 | 6 | 8 | 21.0 | 20.10 | 4 | 6 | 7 | 9 | 21.2 | 16.3 | 6 | 7 | 8 | 21.55 | 17.3 | 6 | | | | | |
| 29 | 2 | 7 | 17.55 | 7 | 6 | 18.1 | 6 | 18.46 | 6 | 6 | 19.0 | 4 | 19.37 | 6 | 5 | 20.0 | 3 | 20.28 | 5 | 5 | 9 | 22.2 | 21.20 | 4 | 5 | 9 | 23.1 | 22.12 | 4 | 5 | | | | | |
| 30 | 3 | 19.0 | 18.13 | 8 | 5 | 3 | 9 | 19.4 | 13.7 | 5 | 2 | 8 | 19.55 | 14.7 | 5 | 2 | 6 | 20.46 | 6 | 5 | 21.1 | 5 | 21.37 | 5 | 5 | 22.0 | 4 | 22.29 | 4 | 5 | | | | | |
| 31 | 5 | 3 | 18.32 | 9 | 5 | 5 | 20.2 | 19.23 | 8 | 12.5 | 4 | 21.1 | 20.13 | 7 | 13.5 | 3 | 22.0 | 21.4 | 15.7 | 4 | 3 | 8 | 21.55 | 6 | 4 | 2 | 7 | 22.46 | 5 | 4 | | | | | |
| 32 | 7 | 7 | 18.52 | 13.0 | 11.4 | 7 | 5 | 19.41 | 9 | 4 | 6 | 4 | 20.32 | 8 | 4 | 5 | 3 | 21.22 | 7 | 14.4 | 5 | 23.2 | 22.12 | 16.7 | 15.4 | 4 | 24.1 | 23.3 | 6 | 16.4 | | | | | |
| 33 | 9 | 20.0 | 19.11 | 1 | 4 | 9 | 9 | 20.0 | 14.0 | 4 | 8 | 7 | 20.50 | 9 | 4 | 7 | 6 | 21.40 | 8 | 3 | 7 | 5 | 22.30 | 7 | 3 | 6 | 4 | 23.21 | 17.7 | 3 | | | | | |
| 34 | 18.1 | 3 | 19.30 | 2 | 4 | 19.1 | 21.2 | 20.20 | 1 | 4 | 20.0 | 22.1 | 21.9 | 15.0 | 3 | 9 | 23.0 | 21.59 | 9 | 3 | 9 | 8 | 22.48 | 8 | 3 | 8 | 7 | 23.38 | 7 | 3 | | | | | |
| 35 | 3 | 7 | 19.50 | 3 | 3 | 3 | 6 | 20.39 | 2 | 12.3 | 2 | 5 | 21.28 | 1 | 13.3 | 21.1 | 3 | 22.17 | 16.0 | 2 | 22.1 | 24.2 | 23.7 | 9 | 2 | 23.0 | 25.1 | 23.56 | 8 | 2 | | | | | |
| 36 | 5 | 21.1 | 20.10 | 4 | 3 | 5 | 22.0 | 20.59 | 3 | 3 | 4 | 8 | 21.47 | 2 | 2 | 3 | 7 | 22.36 | 1 | 2 | 3 | 5 | 23.25 | 17.0 | 15.2 | 2 | 4 | 24.14 | 9 | 16.1 | | | | | |
| 37 | 8 | 5 | 20.30 | 13.5 | 11.2 | 7 | 3 | 21.18 | 4 | 2 | 6 | 23.2 | 22.7 | 3 | 2 | 5 | 24.0 | 22.55 | 2 | 14.1 | 5 | 9 | 23.44 | 1 | 1 | 4 | 8 | 24.32 | 18.0 | 1 | | | | | |
| 38 | 19.0 | 9 | 20.51 | 6 | 2 | 9 | 7 | 21.38 | 14.5 | 2 | 8 | 6 | 22.26 | 4 | 1 | 8 | 3 | 23.14 | 3 | 1 | 7 | 25.3 | 24.3 | 2 | 1 | 6 | 26.2 | 24.51 | 1 | 0 | | | | | |
| 39 | 2 | 22.3 | 21.12 | 8 | 2 | 20.1 | 23.1 | 21.59 | 6 | 12.1 | 21.1 | 24.0 | 22.46 | 15.5 | 13.1 | 22.0 | 7 | 23.34 | 4 | 0 | 9 | 7 | 24.22 | 3 | 0 | 9 | 5 | 25.10 | 1 | 0 | | | | | |
| 40 | 5 | 7 | 21.33 | 9 | 1 | 4 | 4 | 22.20 | 7 | 1 | 3 | 4 | 23.7 | 6 | 0 | 2 | 25.1 | 23.54 | 16.5 | 0 | 23.2 | 26.1 | 24.41 | 17.3 | 14.9 | 24.1 | 9 | 25.29 | 2 | 15.9 | | | | | |
| 41 | 7 | 23.1 | 21.54 | 14.0 | 11.1 | 6 | 8 | 22.40 | 9 | 0 | 6 | 8 | 23.27 | 7 | 0 | 5 | 5 | 24.14 | 6 | 13.9 | 4 | 5 | 25.1 | 4 | 9 | 4 | 27.3 | 25.48 | 18.3 | 8 | | | | | |
| 42 | 20.0 | 5 | 22.15 | 1 | 0 | 9 | 24.3 | 23.1 | 15.0 | 0 | 8 | 25.2 | 23.48 | 8 | 0 | 8 | 9 | 24.34 | 7 | 9 | 7 | 9 | 25.21 | 5 | 8 | 6 | 7 | 26.7 | 4 | 8 | | | | | |
| 43 | 2 | 9 | 22.37 | 2 | 0 | 21.2 | 7 | 23.23 | 1 | 11.9 | 22.1 | 6 | 24.9 | 9 | 12.9 | 23.0 | 26.3 | 24.54 | 8 | 8 | 24.0 | 27.3 | 25.41 | 6 | 8 | 9 | 28.1 | 26.27 | 5 | 7 | | | | | |
| 44 | 5 | 24.4 | 22.59 | 3 | 0 | 5 | 25.2 | 23.44 | 2 | 9 | 4 | 26.1 | 24.30 | 16.0 | 9 | 3 | 8 | 25.15 | 9 | 8 | 2 | 7 | 26.1 | 17.7 | 14.7 | 25.2 | 6 | 26.47 | 6 | 7 | | | | | |
| 45 | 8 | 9 | 23.22 | 4 | 10.9 | 8 | 7 | 24.6 | 3 | 9 | 7 | 5 | 24.51 | 1 | 8 | 6 | 27.2 | 25.37 | 17.0 | 7 | 5 | 28.2 | 26.22 | 7 | 7 | 5 | 29.0 | 27.7 | 18.7 | 15.6 | | | | | |
| 46 | 21.1 | 25.3 | 23.45 | 14.5 | 9 | 22.1 | 26.1 | 24.29 | 15.4 | 8 | 23.0 | 27.0 | 25.13 | 2 | 8 | 9 | 7 | 25.58 | 1 | 13.7 | 8 | 6 | 26.43 | 8 | 6 | 8 | 4 | 27.28 | 8 | 6 | | | | | |
| 47 | 4 | 8 | 24.8 | 6 | 8 | 4 | 6 | 24.52 | 5 | 8 | 3 | 5 | 25.36 | 3 | 7 | 24.2 | 28.2 | 26.21 | 1 | 6 | 25.2 | 29.1 | 27.5 | 9 | 6 | 26.1 | 8 | 27.49 | 9 | 5 | | | | | |
| 48 | 8 | 26.2 | 24.32 | 8 | 8 | 7 | 27.0 | 25.15 | 6 | 11.7 | 6 | 9 | 25.59 | 4 | 12.7 | 6 | 7 | 26.42 | 2 | 6 | 5 | 5 | 27.26 | 18.0 | 14.5 | 5 | 0.3 | 28.10 | 9 | 5 | | | | | |
| 49 | 22.1 | 7 | 24.56 | 9 | 10.7 | 23.1 | 5 | 25.39 | 7 | 7 | 24.0 | 28.4 | 26.22 | 16.5 | 6 | 9 | 29.2 | 27.5 | 3 | 5 | 8 | 27.49 | 1 | 5 | 9 | 8 | 28.32 | 19.0 | 4 | | | | | | |
| 50 | 5 | 27.3 | 25.21 | 15.1 | 7 | 4 | 28.1 | 26.3 | 9 | 6 | 4 | 9 | 26.46 | 7 | 6 | 25.3 | 7 | 27.28 | 17.5 | 5 | 26.2 | 0.5 | 28.11 | 3 | 4 | 27.2 | 1.3 | 28.54 | 1 | 15.4 | | | | | |
| 51 | 9 | 9 | 25.46 | 2 | 6 | 8 | 7 | 26.28 | 16.0 | 6 | 7 | 29.4 | 27.10 | 8 | 5 | 7 | 0.2 | 27.52 | 6 | 13.4 | 6 | 1.0 | 28.34 | 4 | 3 | 6 | 8 | 29.17 | 2 | 3 | | | | | |
| 52 | 23.3 | 28.5 | 26.12 | 3 | 6 | 24.2 | 29.3 | 26.53 | 1 | 11.5 | 25.1 | 27.35 | 9 | 12.5 | 26.1 | 8 | 28.16 | 7 | 3 | 27.0 | 6 | 28.58 | 18.5 | 14.2 | 28.0 | 2.3 | 29.40 | 3 | 2 | | | | | | |
| 53 | 7 | 29.1 | 26.38 | 4 | 10.5 | 6 | 9 | 27.19 | 2 | 5 | 6 | 0.6 | 28.0 | 17.0 | 4 | 5 | 4 | 28.41 | 8 | 3 | 4 | 2.2 | 29.22 | 6 | 2 | 4 | 9 | 0.3 | 19.4 | 1 | | | | | |
| 54 | 24.2 | 7 | 27.5 | 6 | 5 | 25.1 | 0.5 | 27.45 | 16.3 | 4 | 26.1 | 1.2 | 28.26 | 1 | 3 | 27.0 | 2.0 | 29.6 | 9 | 2 | 9 | 8 | 29.47 | 7 | 1 | 9 | 3.5 | 0.28 | 5 | 0 | | | | | |
| 55 | 7 | 0.3 | 27.33 | 8 | 4 | 6 | 1.1 | 28.12 | 5 | 3 | 6 | 9 | 28.52 | 3 | 2 | 5 | 6 | 29.32 | 18.1 | 1 | 28.4 | 3.4 | 0.12 | 9 | 0 | 29.4 | 4.1 | 0.52 | 6 | 14.9 | | | | | |
| 56 | 25.3 | 1.0 | 28.1 | 16.0 | 4 | 26.2 | 8 | 28.40 | 7 | 3 | 27.1 | 2.6 | 29.19 | 4 | 1 | 28.0 | 3.3 | 29.58 | 3 | 0 | 29.0 | 4.0 | 0.38 | 19.0 | 13.9 | 9 | 8 | 1.18 | 8 | 8 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 3 10 12 } 8 ARC 47° 33'.1 } 20° | | | | | H. M. S. 3 14 16 } 8 21° 48° 33'.9 } 21° | | | | | H. M. S. 3 18 19 } 8 22° 49° 34'.8 } 22° | | | | | H. M. S. 3 22 24 } 8 23° 50° 36'.0 } 23° | | | | | H. M. S. 3 26 29 } 8 24° 51° 37'.3 } 24° | | | | | H. M. S. 3 30 35 } 8 25° 52° 38'.8 } 25° | | | | | | |
|--|------|------|----|----|--|------|------|------|----|--|------|------|------|----|--|------|------|------|----|--|------|------|------|----|--|------|------|------|-----|------|----|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | Π | ♊ | ♈ | ♏ | ♊ | Π | ♊ | ♈ | ♏ | ♊ | Π | ♊ | ♈ | ♏ | ♊ | Π | ♊ | ♈ | ♏ | ♊ | Π | ♊ | ♈ | ♏ | ♊ | Π | ♊ | ♈ | ♏ | ♊ | |
| 22 | 21.6 | 21.9 | 21 | 9 | 17.8 | 22.6 | 22.8 | 22 | 3 | 18.8 | 23.5 | 23.7 | 22 | 58 | 19.8 | 24.4 | 24.7 | 23 | 53 | 20.8 | 25.4 | 25.6 | 24 | 48 | 21.8 | 26.3 | 26.5 | 25 | 43 | 22.8 | |
| 23 | 8 | 22.2 | 21 | 25 | 9 | 7 | 23.1 | 22 | 19 | 9 | 7 | 24.0 | 23 | 13 | 8 | 6 | 25.0 | 24 | 8 | 8 | 5 | 9 | 25 | 3 | 8 | 0 | 5 | 8 | 25 | 58 | |
| 24 | 9 | 5 | 21 | 41 | 18.0 | 8 | 9 | 4 | 22 | 35 | 8 | 8 | 3 | 23 | 29 | 8 | 2 | 24 | 23 | 9 | 7 | 26.2 | 25 | 18 | 9 | 6 | 27.1 | 26 | 12 | 8 | |
| 25 | 22.1 | 8 | 21 | 57 | 0 | 8 | 23.0 | 7 | 22 | 51 | 8 | 24.0 | 6 | 23 | 45 | 9 | 5 | 24 | 39 | 8 | 9 | 4 | 25 | 33 | 9 | 8 | 8 | 4 | 26 | 27 | |
| 26 | 3 | 23.1 | 22 | 14 | 1 | 7 | 2 | 24.0 | 23 | 7 | 1 | 9 | 24 | 0 | 0 | 7 | 8 | 24 | 54 | 21.0 | 7 | 26.0 | 7 | 25 | 48 | 8 | 27.0 | 6 | 26 | 42 | |
| 27 | 4 | 4 | 22 | 30 | 2 | 17.7 | 4 | 3 | 23 | 23 | 3 | 25.2 | 24 | 16 | 1 | 3 | 26.1 | 25 | 9 | 0 | 2 | 27.0 | 26 | 3 | 0 | 2 | 9 | 26 | 56 | 23.0 | |
| 28 | 6 | 7 | 22 | 47 | 2 | 6 | 6 | 6 | 23 | 39 | 5 | 5 | 24 | 32 | 1 | 4 | 4 | 25 | 25 | 1 | 4 | 3 | 26 | 18 | 0 | 3 | 28.2 | 27 | 11 | 0 | |
| 29 | 8 | 24.0 | 23 | 3 | 3 | 5 | 7 | 9 | 23 | 56 | 2 | 7 | 8 | 24 | 48 | 2 | 6 | 7 | 25 | 40 | 1 | 6 | 6 | 6 | 26 | 33 | 5 | 5 | 27 | 26 | |
| 30 | 23.0 | 3 | 23 | 20 | 18.4 | 5 | 9 | 25.2 | 24 | 12 | 5 | 9 | 26.1 | 25 | 4 | 8 | 27.0 | 25 | 56 | 2 | 5 | 7 | 9 | 26 | 48 | 1 | 7 | 8 | 27 | 41 | |
| 31 | 2 | 6 | 23 | 37 | 4 | 17.4 | 24.1 | 5 | 24 | 29 | 2 | 4 | 25 | 20 | 3 | 2 | 3 | 26 | 12 | 21.2 | 4 | 9 | 28.2 | 27 | 4 | 2 | 9 | 29.1 | 27 | 56 | |
| 32 | 4 | 9 | 23 | 54 | 5 | 4 | 3 | 8 | 24 | 45 | 2 | 7 | 25 | 36 | 4 | 2 | 6 | 26 | 28 | 3 | 4 | 5 | 27 | 19 | 22.2 | 4 | 28.1 | 4 | 28 | 11 | |
| 33 | 5 | 25.2 | 24 | 11 | 6 | 3 | 5 | 26.1 | 25 | 2 | 4 | 27.0 | 25 | 53 | 4 | 4 | 9 | 26 | 44 | 3 | 3 | 8 | 27 | 35 | 3 | 3 | 7 | 28 | 26 | | |
| 34 | 7 | 6 | 24 | 29 | 6 | 2 | 7 | 5 | 25 | 19 | 6 | 6 | 3 | 26 | 9 | 5 | 6 | 28 | 27 | 0 | 4 | 5 | 29.1 | 27 | 51 | 3 | 5 | 9 | 28 | 42 | |
| 35 | 9 | 9 | 24 | 46 | 18.7 | 17.2 | 9 | 8 | 25 | 36 | 8 | 7 | 26 | 26 | 5 | 8 | 6 | 27 | 16 | 4 | 7 | 5 | 28 | 7 | 4 | 7 | 0.4 | 28 | 57 | 3 | |
| 36 | 24.2 | 26.3 | 25 | 4 | 8 | 1 | 25.1 | 27.2 | 25 | 53 | 7 | 26.0 | 28.0 | 26 | 43 | 1 | 9 | 27 | 33 | 21.5 | 1 | 8 | 28 | 23 | 4 | 9 | 7 | 29 | 13 | 3 | |
| 37 | 4 | 6 | 25 | 21 | 9 | 1 | 3 | 5 | 26 | 11 | 2 | 4 | 27 | 0 | 7 | 2 | 29.3 | 27 | 49 | 6 | 0 | 28.1 | 0.1 | 28 | 39 | 5 | 0 | 29.1 | 1.0 | 29 | 29 |
| 38 | 6 | 27.0 | 25 | 39 | 9 | 0 | 5 | 9 | 26 | 28 | 5 | 7 | 27 | 17 | 7 | 4 | 6 | 28 | 6 | 6 | 3 | 5 | 28 | 55 | 22.5 | 20.9 | 3 | 4 | 29 | 45 | |
| 39 | 8 | 4 | 25 | 58 | 19.0 | 16.9 | 8 | 28.2 | 26 | 46 | 9 | 7 | 29.1 | 27 | 34 | 6 | 9 | 28 | 23 | 7 | 6 | 9 | 29 | 12 | 6 | 5 | 7 | 0 | 1 | 5 | |
| 40 | 25.1 | 7 | 26 | 16 | 1 | 9 | 26.0 | 6 | 27 | 4 | 8 | 9 | 5 | 27 | 52 | 8 | 9 | 0.3 | 28 | 40 | 8 | 8 | 1.2 | 29 | 29 | 6 | 8 | 8 | 2.1 | 0 | |
| 41 | 3 | 28.1 | 26 | 35 | 2 | 8 | 3 | 29.0 | 27 | 23 | 0 | 8 | 27.2 | 9 | 28 | 10 | 7 | 28.1 | 7 | 28 | 7 | 7 | 29.1 | 6 | 29 | 7 | 7 | 5 | 0 | 34 | |
| 42 | 6 | 5 | 26 | 54 | 3 | 7 | 5 | 4 | 27 | 41 | 5 | 0.3 | 28 | 28 | 21.0 | 6 | 4 | 1.1 | 29 | 15 | 9 | 3 | 2.0 | 0 | 3 | 6 | 0.3 | 9 | 0 | 51 | |
| 43 | 8 | 29.0 | 27 | 13 | 19.3 | 7 | 8 | 8 | 28 | 0 | 2 | 7 | 7 | 28 | 47 | 1 | 7 | 5 | 29 | 33 | 9 | 6 | 4 | 0 | 20 | 5 | 3 | 3 | 1 | 8 | |
| 44 | 26.1 | 4 | 27 | 33 | 4 | 16.6 | 27.1 | 0.2 | 28 | 19 | 3 | 1.1 | 29 | 5 | 1 | 9 | 9 | 29 | 52 | 22.0 | 5 | 9 | 8 | 0 | 38 | 9 | 5 | 8 | 7 | 1 | |
| 45 | 4 | 8 | 27 | 53 | 5 | 6 | 4 | 7 | 28 | 38 | 5 | 3 | 5 | 29 | 24 | 2 | 29.2 | 2.4 | 0 | 10 | 1 | 0.2 | 3.2 | 0 | 56 | 9 | 4 | 1.1 | 4.1 | 143 | |
| 46 | 7 | 0.3 | 28 | 13 | 6 | 5 | 7 | 1.1 | 28 | 58 | 4 | 5 | 6 | 9 | 29 | 3 | 5 | 8 | 0 | 29 | 1 | 5 | 7 | 1 | 14 | 23.0 | 4 | 4 | 4 | 2 | |
| 47 | 27.0 | 7 | 28 | 33 | 19.7 | 5 | 28.0 | 5 | 29 | 18 | 9 | 2.3 | 0 | 3 | 21.4 | 3 | 9 | 3.2 | 0 | 48 | 2 | 8 | 4.1 | 1 | 33 | 0 | 7 | 8 | 2 | 18 | |
| 48 | 4 | 1.1 | 28 | 54 | 8 | 4 | 3 | 2.0 | 29 | 39 | 6 | 29.2 | 8 | 0 | 23 | 4 | 0.2 | 6 | 1 | 7 | 22.3 | 1.1 | 5 | 1 | 52 | 1 | 2 | 2.1 | 5 | 3 | |
| 49 | 7 | 6 | 29 | 15 | 8 | 16.3 | 7 | 4 | 29 | 59 | 20.7 | 6 | 3 | 0 | 43 | 5 | 5 | 4 | 0 | 127 | 3 | 5 | 9 | 2 | 11 | 2 | 4 | 7 | 2 | 56 | |
| 50 | 28.1 | 2.1 | 29 | 37 | 9 | 3 | 29.1 | 9 | 0 | 20 | 8 | 2 | 7 | 1 | 4 | 6 | 9 | 5 | 1 | 47 | 4 | 9 | 5 | 4 | 2 | 31 | 2 | 8 | 6 | 2 | |
| 51 | 4 | 6 | 29 | 59 | 20.0 | 2 | 5 | 3 | 4 | 0 | 42 | 0.3 | 4 | 2 | 125 | 21.7 | 1.2 | 5 | 0 | 2 | 8 | 2.3 | 9 | 2 | 51 | 23.3 | 3.1 | 7 | 3 | 34 | |
| 52 | 8 | 3.1 | 0 | 22 | 1 | 1 | 9 | 9 | 1 | 4 | 9 | 7 | 7 | 1 | 46 | 6 | 5 | 2 | 29 | 6 | 7 | 6 | 4 | 3 | 11 | 4 | 5 | 7 | 2 | 3 | |
| 53 | 29.3 | 7 | 0 | 45 | 2 | 0 | 0.3 | 4 | 5 | 1 | 26 | 1.1 | 5 | 2 | 8 | 8 | 2 | 0 | 6 | 0 | 8 | 3.1 | 9 | 3 | 32 | 4 | 7 | 9 | 7 | 4 | |
| 54 | 7 | 4 | 3 | 1 | 9 | 3 | 15.9 | 7 | 5 | 1 | 49 | 6 | 8 | 2 | 31 | 22.0 | 7 | 5 | 6 | 3 | 12 | 7 | 5 | 7 | 4 | 3 | 5 | 6 | 4 | 8 | |
| 55 | 0.3 | 9 | 1 | 33 | 4 | 8 | 1.2 | 7 | 2 | 13 | 2 | 7 | 2 | 1 | 6 | 0 | 3 | 1 | 7 | 2 | 3 | 5 | 4 | 0 | 8 | 0 | 4 | 15 | 6 | 4 | |
| 56 | 8 | 5 | 5 | 1 | 57 | 5 | 7 | 6 | 3 | 2 | 37 | 6 | 6 | 7 | 0 | 3 | 6 | 8 | 3 | 57 | 9 | 5 | 5 | 4 | 38 | 7 | 3 | 5 | 4 | 3 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 3 30 35 } 5 ARC 52° 38'.8 } 25° | | | | | | H. M. S. 3 34 42 } 26° 53° 40'.5 } | | | | | | H. M. S. 3 38 49 } 27° 54° 42'.3 } | | | | | | H. M. S. 3 42 57 } 28° 55° 44'.4 } | | | | | | H. M. S. 3 47 6 } 29° 56° 46'.6 } | | | | | | H. M. S. 3 51 16 } II 0° 57° 48'.9 } | | | | | |
|--|------|------|-------|------|------|--|------|-------|------|------|------|--|-------|------|------|------|------|--|------|------|-----|------|-------|---|------|------|------|------|------|--|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | Π | ☊ | ♈ | ♉ | ♊ | Π | ☊ | ♈ | ♉ | ♊ | Π | ☊ | ♈ | ♉ | ♊ | Π | ☊ | ♈ | ♉ | ♊ | ☋ | ♈ | ♉ | ♊ | ♋ | ☌ | ♈ | ♉ | ♊ | ♋ | | | | | |
| 22 | 26.3 | 26.5 | 25.43 | 22.8 | 23.1 | 27.3 | 27.5 | 26.39 | 23.7 | 24.1 | 28.2 | 28.4 | 27.35 | 24.8 | 25.1 | 29.2 | 29.4 | 28.31 | 25.7 | 26.2 | 0.1 | 0.3 | 29.27 | 26.8 | 27.3 | 1.1 | 1.2 | 0.23 | 27.8 | 28.3 | | | | | |
| 23 | 5 | 8 | 25.58 | 8 | 0 | 4 | 7 | 26.53 | 8 | 0 | 4 | 7 | 27.48 | 8 | 1 | 3 | 6 | 28.44 | 8 | 1 | 3 | 5 | 29.40 | 8 | 2 | 2 | 5 | 0.36 | 8 | 3 | | | | | |
| 24 | 6 | 27.1 | 26.12 | 8 | 22.9 | 6 | 28.0 | 27.7 | 8 | 0 | 5 | 9 | 28.2 | 8 | 0 | 5 | 9 | 28.58 | 8 | 1 | 4 | 8 | 29.53 | 8 | 1 | 4 | 7 | 0.49 | 8 | 2 | | | | | |
| 25 | 8 | 4 | 26.27 | 9 | 9 | 8 | 3 | 27.21 | 9 | 23.9 | 7 | 29.2 | 28.16 | 8 | 24.9 | 7 | 0.2 | 29.11 | 8 | 0 | 6 | 1.1 | 0.6 | 8 | 1 | 6 | 2.0 | 1.2 | 8 | 1 | | | | | |
| 26 | 27.0 | 6 | 26.42 | 9 | 8 | 9 | 6 | 27.36 | 9 | 8 | 9 | 5 | 28.30 | 24.9 | 9 | 8 | 4 | 29.25 | 8 | 25.9 | 8 | 3 | 0.19 | 26.8 | 0 | 7 | 3 | 1.15 | 8 | 0 | | | | | |
| 27 | 2 | 9 | 26.56 | 23.0 | 7 | 28.1 | 8 | 27.50 | 9 | 8 | 29.0 | 8 | 28.44 | 9 | 8 | ☋ | 7 | 29.38 | 25.9 | 9 | 1.0 | 6 | 0.33 | 9 | 26.9 | 9 | 5 | 1.27 | 27.8 | 27.9 | | | | | |
| 28 | 3 | 28.2 | 27.11 | 0 | 7 | 3 | 29.1 | 28.5 | 24.0 | 7 | 2 | ☊ | 28.58 | 9 | 7 | 0.2 | 1.0 | 29.52 | 9 | 8 | 1 | 9 | 0.46 | 9 | 8 | 2.1 | 8 | 1.40 | 8 | 9 | | | | | |
| 29 | 5 | 5 | 27.26 | 0 | 22.6 | 5 | 4 | 28.19 | 0 | 6 | 4 | 0.3 | 29.12 | 25.0 | 7 | 4 | 3 | 0.6 | 9 | 7 | 3 | 2.1 | 0.59 | 9 | 7 | 2 | 3.1 | 1.53 | 9 | 8 | | | | | |
| 30 | 7 | 8 | 27.41 | 1 | 5 | 6 | 7 | 28.34 | 0 | 23.6 | 6 | 6 | 29.26 | 0 | 24.6 | 5 | 5 | 0.20 | 9 | 25.6 | 5 | 4 | 1.13 | 26.9 | 7 | 4 | 4 | 2.6 | 9 | 7 | | | | | |
| 31 | 9 | 29.1 | 27.56 | 1 | 5 | 8 | ☊ | 28.48 | 1 | 5 | 8 | 9 | 29.41 | 0 | 5 | 7 | 8 | 0.33 | 26.0 | 5 | 7 | 7 | 1.26 | 9 | 26.6 | 6 | 6 | 2.19 | 9 | 27.6 | | | | | |
| 32 | 28.1 | 4 | 28.11 | 23.2 | 4 | 29.0 | 0.3 | 29.3 | 1 | 4 | ☋ | 1.2 | 29.55 | 0 | 4 | 9 | 2.1 | 0.47 | 0 | 5 | 9 | 3.0 | 1.40 | 9 | 5 | 8 | 9 | 2.33 | 27.9 | 5 | | | | | |
| 33 | 3 | 7 | 28.26 | 2 | 3 | 2 | 6 | 29.18 | 24.1 | 3 | 0.2 | 5 | 0.9 | 1 | 3 | 1.1 | 4 | 1.1 | 0 | 4 | 2.1 | 3 | 1.54 | 27.0 | 4 | 3.0 | 4.2 | 2.46 | 9 | 4 | | | | | |
| 34 | 5 | ☊ | 28.42 | 2 | 22.2 | 4 | 9 | 29.33 | 2 | 23.2 | 3 | 8 | 0.24 | 25.1 | 24.3 | 3 | 7 | 1.16 | 0 | 25.3 | 2 | 6 | 2.7 | 0 | 3 | 2 | 5 | 2.59 | 9 | 3 | | | | | |
| 35 | 7 | 0.4 | 28.57 | 3 | 2 | 6 | 1.2 | 29.48 | 2 | 2 | 5 | 2.1 | 0.39 | 1 | 2 | 5 | 3.0 | 1.30 | 1 | 2 | 4 | 9 | 2.21 | 0 | 26.2 | 4 | 8 | 3.13 | 9 | 27.2 | | | | | |
| 36 | 9 | 7 | 29.13 | 3 | 1 | 8 | 6 | 0.3 | 2 | 1 | 7 | 5 | 0.54 | 2 | 1 | 7 | 4 | 1.44 | 26.1 | 1 | 6 | 4.2 | 2.36 | 0 | 1 | 6 | 5.1 | 3.26 | 28.0 | 2 | | | | | |
| 37 | 29.1 | 1.0 | 29.29 | 23.4 | 0 | ☋ | 9 | 0.19 | 3 | 0 | 1.0 | 8 | 1.9 | 2 | 0 | 9 | 7 | 1.59 | 1 | 0 | 9 | 6 | 2.50 | 0 | 0 | 8 | 4 | 3.40 | 0 | 1 | | | | | |
| 38 | 3 | 4 | 29.45 | 4 | 21.9 | 0.2 | 2.2 | 0.34 | 24.3 | 22.9 | 2 | 3.1 | 1.24 | 2 | 23.9 | 2.1 | 4.0 | 2.14 | 1 | 24.9 | 3.1 | 9 | 3.4 | 27.1 | 0 | 4.0 | 7 | 3.54 | 0 | 0 | | | | | |
| 39 | 5 | 7 | 0.1 | 5 | 8 | 5 | 5 | 0.50 | 4 | 8 | 4 | 5 | 1.39 | 25.3 | 8 | 4 | 4 | 2.29 | 2 | 8 | 3 | 5.2 | 3.18 | 1 | 25.9 | 3 | 6.0 | 4.8 | 0 | 26.9 | | | | | |
| 40 | 8 | 2.1 | 0.17 | 5 | 8 | 7 | 9 | 1.6 | 4 | 8 | 6 | 8 | 1.55 | 3 | 8 | 6 | 7 | 2.44 | 26.2 | 7 | 5 | 6 | 3.33 | 1 | 8 | 5 | 4 | 4.22 | 0 | 8 | | | | | |
| 41 | ☋ | 5 | 0.34 | 23.6 | 7 | 1.0 | 3.2 | 1.22 | 5 | 7 | 9 | 4.2 | 2.11 | 3 | 7 | 8 | 5.1 | 2.59 | 2 | 6 | 8 | 9 | 3.48 | 1 | 7 | 7 | 8 | 4.37 | 28.0 | 7 | | | | | |
| 42 | 0.3 | 9 | 0.51 | 6 | 6 | 2 | 6 | 1.38 | 5 | 22.6 | 2.2 | 6 | 2.26 | 4 | 23.6 | 3.1 | 5 | 3.15 | 3 | 24.5 | 4.1 | 6.3 | 4.3 | 2 | 6 | 5.0 | 7.1 | 4.51 | 1 | 6 | | | | | |
| 43 | 5 | 3.3 | 1.8 | 7 | 21.5 | 5 | 4.0 | 1.55 | 24.6 | 5 | 4 | 5.0 | 2.43 | 25.4 | 5 | 4 | 8 | 3.30 | 3 | 4 | 3 | 7 | 4.18 | 27.2 | 4 | 3 | 5 | 5.6 | 1 | 5 | | | | | |
| 44 | 8 | 7 | 1.25 | 7 | 5 | 8 | 4 | 2.12 | 6 | 4 | 7 | 4 | 2.59 | 5 | 4 | 7 | 6.2 | 3.46 | 26.3 | 4 | 6 | 7.0 | 4.34 | 2 | 25.3 | 6 | 9 | 5.21 | 1 | 26.4 | | | | | |
| 45 | 1.1 | 4.1 | 1.43 | 23.8 | 4 | 2.1 | 8 | 2.29 | 6 | 3 | 3.0 | 7 | 3.16 | 5 | 4 | 9 | 5 | 4.2 | 4 | 3 | 9 | 4 | 4.49 | 2 | 3 | 8 | 8.3 | 5.36 | 1 | 3 | | | | | |
| 46 | 4 | 4 | 2.0 | 8 | 3 | 4 | 5.2 | 2.46 | 7 | 22.3 | 3 | 6.1 | 3.33 | 5 | 23.3 | 4.2 | 9 | 4.19 | 4 | 24.2 | 5.2 | 8 | 5.5 | 3 | 2 | 6.1 | 7 | 5.52 | 28.1 | 2 | | | | | |
| 47 | 7 | 8 | 2.18 | 9 | 21.2 | 7 | 7 | 3.4 | 7 | 2 | 6 | 5 | 3.50 | 25.6 | 1 | 6 | 7.3 | 4.35 | 4 | 1 | 5 | 8.2 | 5.21 | 3 | 1 | 4 | 9.1 | 6.7 | 2 | 1 | | | | | |
| 48 | 2.1 | 5.3 | 2.37 | 9 | 1 | 3.0 | 6.1 | 3.22 | 24.8 | 1 | 9 | 9 | 4.7 | 6 | 0 | 9 | 7 | 4.52 | 26.5 | 0 | 8 | 6 | 5.38 | 27.3 | 0 | 8 | 5 | 6.23 | 2 | 0 | | | | | |
| 49 | 4 | 7 | 2.56 | 24.0 | 1 | 3 | 6 | 3.40 | 8 | 0 | 4.3 | 7.3 | 4.25 | 7 | 22.9 | 5.2 | 8.1 | 5.10 | 5 | 23.9 | 6.1 | 9.0 | 5.55 | 3 | 24.8 | 7.1 | 9 | 6.39 | 2 | 25.9 | | | | | |
| 50 | 8 | 6.2 | 3.15 | 1 | 0 | 7 | 7.0 | 3.59 | 9 | 21.9 | 7 | 8 | 4.43 | 7 | 8 | 6 | 6 | 5.27 | 6 | 8 | 5 | 4 | 6.12 | 4 | 7 | 5 | 10.3 | 6.56 | 2 | 7 | | | | | |
| 51 | 3.1 | 7 | 3.34 | 1 | 20.9 | 4.0 | 5 | 4.18 | 9 | 8 | 5.0 | 8.3 | 5.1 | 25.8 | 7 | 9 | 9.1 | 5.45 | 6 | 7 | 8 | 9 | 6.29 | 4 | 6 | 8 | 7 | 7.13 | 28.2 | 6 | | | | | |
| 52 | 5 | 7.2 | 3.54 | 2 | 8 | 4 | 8.0 | 4.37 | 25.0 | 7 | 4 | 8 | 5.20 | 8 | 6 | 6.3 | 6 | 6.3 | 26.6 | 6 | 7.2 | 10.4 | 6.47 | 27.4 | 5 | 8.1 | 11.1 | 7.30 | 3 | 5 | | | | | |
| 53 | 9 | 7 | 4.15 | 24.2 | 7 | 8 | 5 | 4.57 | 0 | 6 | 8 | 9.3 | 5.39 | 8 | 22.5 | 7 | 10.1 | 6.22 | 7 | 23.4 | 6 | 9 | 7.5 | 5 | 24.3 | 5 | 6 | 7.48 | 3 | 25.4 | | | | | |
| 54 | 4.4 | 8.2 | 4.35 | 3 | 6 | 5.3 | 9.0 | 5.17 | 1 | 5 | 6.2 | 8 | 5.59 | 9 | 4 | 7.2 | 6 | 6.41 | 7 | 3 | 8.1 | 11.4 | 7.23 | 5 | 2 | 9.0 | 12.1 | 8.5 | 3 | 2 | | | | | |
| 55 | 9 | 7 | 4.57 | 4 | 4 | 8 | 5 | 5.38 | 2 | 3 | 7 | 10.3 | 6.19 | 26.0 | 2 | 7 | 11.1 | 7.0 | 8 | 1 | 6 | 9 | 7.42 | 6 | 0 | 5 | 6 | 8.24 | 4 | 0 | | | | | |
| 56 | 5.4 | 9.3 | 5.18 | 4 | 3 | 6.3 | 10.1 | 5.59 | 2 | 2 | 7.2 | 9 | 6.40 | 0 | 1 | 8.2 | 6 | 7.20 | 8 | 0 | 9.1 | 12.4 | 8.1 | 6 | 23.9 | 10.0 | 13.1 | 8.42 | 4 | 24.9 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

13

| H. M. S. SID. T. 3 55 26 } II ARC 58° 51'.5 } 1° | | | | | | H. M. S. 3 59 37 } II 2° 59° 54'.2 } | | | | | | H. M. S. 4 3 48 } II 3° 60° 57'.1 } | | | | | | H. M. S. 4 8 1 } II 4° 62° 0'.1 } | | | | | | H. M. S. 4 12 13 } II 5° 63° 3'.3 } | | | | | | H. M. S. 4 16 27 } II 6° 64° 6'.7 } | | | | | |
|--|------|------|-----|------|------|--|------|-----|------|------|------|---|------|-----|------|------|------|---|-----|------|------|------|------|---|------|------|------|------|------|---|---|--|--|--|--|
| II. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | | | | | |
| 22 | 2.0 | 2.1 | 120 | 28.8 | 29.4 | 3.0 | 3.1 | 217 | 29.8 | 0.4 | 3.9 | 4.1 | 314 | 0.8 | 1.5 | 4.9 | 5.0 | 411 | 1.8 | 2.5 | 5.9 | 6.0 | 59 | 2.9 | 3.6 | 6.8 | 7.0 | 67 | 3.9 | 4.6 | | | | | |
| 23 | 2 | 4 | 133 | 8 | 3 | 2 | 3 | 229 | 8 | 3 | 4.1 | 3 | 326 | 8 | 4 | 5.1 | 3 | 423 | 8 | 4 | 6.0 | 3 | 520 | 9 | 5 | 7.0 | 2 | 617 | 9 | 5 | | | | | |
| 24 | 4 | 7 | 145 | 8 | 2 | 3 | 6 | 241 | 8 | 3 | 3 | 6 | 337 | 8 | 3 | 2 | 5 | 434 | 8 | 3 | 2 | 5 | 531 | 9 | 4 | 2 | 5 | 628 | 9 | 4 | | | | | |
| 25 | 5 | 9 | 157 | 8 | 1 | 5 | 9 | 253 | 8 | 2 | 4 | 8 | 349 | 8 | 2 | 4 | 8 | 445 | 8 | 3 | 4 | 8 | 542 | 8 | 3 | 3 | 7 | 635 | 9 | 3 | | | | | |
| 26 | 7 | 3.2 | 210 | 8 | 1 | 6 | 4.1 | 3 | 5 | 8 | 1 | 6 | 5.1 | 4 | 1 | 6 | 6.0 | 457 | 8 | 2.2 | 5 | 7.0 | 553 | 8 | 3.2 | 5 | 8.0 | 649 | 8 | 4.2 | | | | | |
| 27 | 9 | 5 | 222 | 28.8 | 0 | 8 | 4 | 317 | 29.8 | 0 | 8 | 3 | 413 | 0.8 | 1 | 7 | 3 | 58 | 1.8 | 1 | 7 | 3 | 64 | 2.8 | 1 | 7 | 2 | 659 | 3.8 | 1 | | | | | |
| 28 | 3.0 | 7 | 235 | 8 | 28.9 | 4.0 | 6 | 330 | 8 | 29.9 | 9 | 6 | 424 | 8 | 0 | 9 | 5 | 519 | 8 | 0 | 9 | 5 | 615 | 8 | 0 | 8 | 5 | 710 | 8 | 1 | | | | | |
| 29 | 2 | 4.0 | 247 | 8 | 8 | 2 | 9 | 342 | 8 | 8 | 5.1 | 8 | 436 | 8 | 0.9 | 6.1 | 8 | 531 | 8 | 1.9 | 7.0 | 8 | 626 | 8 | 2.9 | 8.0 | 7 | 721 | 8 | 0 | | | | | |
| 30 | 4 | 3 | 30 | 8 | 7 | 3 | 5.2 | 354 | 8 | 8 | 3 | 6.1 | 448 | 8 | 8 | 3 | 7.0 | 542 | 8 | 8 | 2 | 8.0 | 637 | 7 | 8 | 2 | 9.0 | 731 | 7 | 3.9 | | | | | |
| 31 | 6 | 5 | 313 | 8 | 6 | 5 | 5 | 46 | 8 | 7 | 5 | 4 | 50 | 8 | 7 | 4 | 3 | 554 | 8 | 7 | 4 | 3 | 648 | 7 | 7 | 4 | 2 | 742 | 7 | 8 | | | | | |
| 32 | 8 | 8 | 326 | 28.8 | 28.5 | 7 | 7 | 419 | 29.8 | 29.6 | 7 | 7 | 512 | 0.8 | 6 | 6 | 6 | 65 | 1.8 | 6 | 6 | 6 | 659 | 2.7 | 6 | 5 | 5 | 753 | 3.7 | 7 | | | | | |
| 33 | 4.0 | 5.1 | 338 | 9 | 5 | 9 | 6.0 | 431 | 8 | 5 | 9 | 9 | 524 | 8 | 5 | 8 | 9 | 617 | 7 | 5 | 8 | 8 | 710 | 7 | 5 | 7 | 8 | 84 | 7 | 6 | | | | | |
| 34 | 1 | 4 | 351 | 9 | 4 | 5.1 | 3 | 444 | 8 | 4 | 6.0 | 7.2 | 536 | 8 | 0.4 | 7.0 | 8.1 | 629 | 7 | 1.4 | 8.0 | 9.1 | 722 | 7 | 2.4 | 9 | 10.0 | 814 | 6 | 5 | | | | | |
| 35 | 3 | 7 | 44 | 9 | 3 | 3 | 6 | 456 | 8 | 3 | 2 | 5 | 548 | 8 | 3 | 2 | 4 | 641 | 7 | 3 | 2 | 4 | 733 | 7 | 3 | 9.1 | 3 | 825 | 6 | 3.4 | | | | | |
| 36 | 5 | 6.0 | 418 | 9 | 28.2 | 5 | 9 | 59 | 8 | 29.2 | 4 | 8 | 61 | 8 | 2 | 4 | 7 | 653 | 7 | 2 | 4 | 7 | 744 | 7 | 2 | 3 | 6 | 837 | 6 | 2 | | | | | |
| 37 | 8 | 3 | 431 | 28.9 | 1 | 7 | 7.2 | 522 | 29.8 | 1 | 7 | 8.1 | 613 | 0.8 | 1 | 6 | 9.0 | 75 | 1.7 | 1 | 6 | 10.0 | 756 | 2.7 | 1 | 5 | 9 | 848 | 3.6 | 1 | | | | | |
| 38 | 5.0 | 6 | 444 | 9 | 0 | 9 | 5 | 535 | 8 | 0 | 9 | 4 | 626 | 8 | 0 | 8 | 3 | 717 | 7 | 0 | 8 | 3 | 88 | 6 | 0 | 7 | 11.2 | 859 | 6 | 0 | | | | | |
| 39 | 2 | 9 | 458 | 9 | 27.9 | 6.2 | 8 | 548 | 8 | 28.9 | 7.1 | 7 | 638 | 8 | 29.9 | 8.1 | 7 | 729 | 7 | 0.9 | 9.0 | 6 | 819 | 6 | 1.9 | 10.0 | 5 | 910 | 5 | 2.9 | | | | | |
| 40 | 4 | 7.3 | 512 | 9 | 8 | 4 | 8.2 | 62 | 8 | 8 | 3 | 9.1 | 651 | 8 | 8 | 3 | 10.0 | 741 | 7 | 8 | 2 | 9 | 831 | 6 | 8 | 2 | 8 | 922 | 5 | 8 | | | | | |
| 41 | 7 | 6 | 526 | 9 | 7 | 6 | 5 | 615 | 29.8 | 7 | 6 | 4 | 74 | 8 | 7 | 5 | 3 | 754 | 7 | 6 | 5 | 11.3 | 844 | 6 | 6 | 4 | 12.2 | 933 | 5 | 6 | | | | | |
| 42 | 6.0 | 8.0 | 540 | 29.0 | 5 | 9 | 9 | 629 | 8 | 5 | 9 | 8 | 718 | 0.8 | 5 | 8 | 7 | 87 | 1.7 | 5 | 8 | 6 | 856 | 2.6 | 5 | 7 | 5 | 945 | 3.5 | 5 | | | | | |
| 43 | 2 | 4 | 554 | 0 | 4 | 7.2 | 9.2 | 643 | 9 | 4 | 8.1 | 10.1 | 731 | 8 | 4 | 9.1 | 11.0 | 820 | 7 | 0.4 | 10.0 | 12.0 | 98 | 6 | 1.4 | 11.0 | 8 | 957 | 4 | 2.4 | | | | | |
| 44 | 5 | 7 | 69 | 0 | 27.3 | 5 | 6 | 657 | 9 | 28.3 | 4 | 5 | 744 | 8 | 29.3 | 3 | 4 | 833 | 7 | 3 | 3 | 3 | 921 | 6 | 2 | 2 | 13.1 | 109 | 4 | 2 | | | | | |
| 45 | 8 | 9.1 | 623 | 0 | 2 | 7 | 10.0 | 711 | 29.9 | 2 | 7 | 8 | 758 | 8 | 2 | 6 | 7 | 846 | 6 | 1 | 6 | 6 | 934 | 6 | 1 | 5 | 4 | 1021 | 4 | 1 | | | | | |
| 46 | 7.1 | 5 | 638 | 0 | 1 | 8.0 | 4 | 725 | 9 | 1 | 9.0 | 11.2 | 812 | 8 | 1 | 9 | 12.1 | 859 | 6 | 0 | 9 | 9 | 947 | 5 | 0 | 8 | 8 | 1034 | 4 | 0 | | | | | |
| 47 | 4 | 8 | 653 | 29.0 | 0 | 3 | 7 | 740 | 9 | 0 | 3 | 5 | 826 | 0.8 | 0 | 10.2 | 5 | 913 | 1.6 | 29.9 | 11.2 | 13.3 | 100 | 2.5 | 0.9 | 12.1 | 14.2 | 1046 | 3.3 | 1.9 | | | | | |
| 48 | 7 | 10.2 | 79 | 0 | 26.9 | 6 | 11.1 | 755 | 9 | 27.9 | 6 | 9 | 841 | 8 | 28.8 | 5 | 8 | 927 | 6 | 8 | 5 | 6 | 1013 | 5 | 7 | 4 | 5 | 1059 | 3 | 7 | | | | | |
| 49 | 8.0 | 6 | 725 | 1 | 7 | 9.0 | 5 | 810 | 29.9 | 8 | 10.0 | 12.3 | 855 | 8 | 7 | 8 | 13.2 | 941 | 6 | 6 | 8 | 14.0 | 1027 | 5 | 6 | 7 | 8 | 1112 | 3 | 5 | | | | | |
| 50 | 4 | 11.1 | 741 | 1 | 6 | 3 | 9 | 825 | 9 | 6 | 3 | 7 | 910 | 8 | 5 | 11.2 | 6 | 955 | 6 | 5 | 12.1 | 4 | 1041 | 5 | 4 | 13.1 | 15.2 | 1126 | 3 | 4 | | | | | |
| 51 | 7 | 5 | 757 | 1 | 5 | 6 | 12.3 | 841 | 9 | 5 | 6 | 13.1 | 925 | 8 | 4 | 5 | 14.0 | 1010 | 6 | 29.3 | 4 | 8 | 1055 | 5 | 0.3 | 4 | 6 | 1139 | 3 | 3 | | | | | |
| 52 | 9.1 | 9 | 813 | 29.1 | 26.4 | 10.0 | 7 | 857 | 9 | 27.3 | 11.0 | 5 | 941 | 0.8 | 2 | 9 | 4 | 1025 | 1.6 | 2 | 8 | 15.2 | 119 | 2.4 | 1 | 8 | 16.0 | 1153 | 3.2 | 1 | | | | | |
| 53 | 5 | 12.4 | 830 | 1 | 2 | 4 | 13.2 | 913 | 2 | 4 | 14.0 | 957 | 8 | 1 | 12.3 | 8 | 1040 | 6 | 0 | 13.2 | 6 | 1124 | 4 | 0 | 14.2 | 4 | 127 | 2 | 0.9 | | | | | | |
| 54 | 9 | 9 | 848 | 1 | 1 | 9 | 7 | 930 | 0.0 | 0 | 8 | 5 | 1013 | 8 | 27.9 | 7 | 15.3 | 1056 | 6 | 28.9 | 6 | 16.1 | 1139 | 4 | 29.8 | 6 | 9 | 1222 | 2 | 7 | | | | | |
| 55 | 10.4 | 13.4 | 95 | 2 | 25.9 | 11.3 | 14.2 | 947 | 0 | 26.8 | 12.2 | 15.0 | 1029 | 8 | 7 | 13.2 | 8 | 1111 | 6 | 7 | 14.1 | 6 | 1154 | 4 | 6 | 15.0 | 17 | 4 | 1236 | 2 | 5 | | | | |
| 56 | 9 | 9 | 923 | 2 | 8 | 9 | 7 | 105 | 0 | 7 | 7 | 5 | 1046 | 8 | 6 | 7 | 16.3 | 1125 | 5 | 5 | 6 | 17.1 | 1210 | 3 | 4 | 5 | 9 | 1251 | 1 | 3 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 4 16 27 } II ARC 64° 6'.7 } 6° | | | | | | H. M. S. 4 20 41 } II 7° 65° 10'.2 } | | | | | | H. M. S. 4 24 55 } II 8° 66° 13'.8 } | | | | | | H. M. S. 4 29 11 } II 9° 67° 17'.6 } | | | | | | H. M. S. 4 33 26 } II 10° 68° 21'.6 } | | | | | | H. M. S. 4 37 42 } II 11° 69° 25'.6 } | | | | | |
|---|------|------|-------|-----|-----|--|------|-------|-----|-----|------|--|-------|-----|-----|------|------|--|-----|-----|------|------|-------|---|-----|------|------|-------|-----|---|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ |
| 22 | 6.8 | 7.0 | 6 7 | 3.9 | 4.6 | 7.8 | 7.9 | 7 5 | 5.0 | 5.6 | 8.8 | 8.9 | 8 3 | 6.0 | 6.7 | 9.8 | 9.9 | 9 2 | 7.0 | 7.7 | 10.7 | 10.9 | 10 0 | 8.1 | 8.8 | 11.7 | 11.8 | 10 59 | 9.2 | 9.8 | | | | | |
| 23 | 7.0 | 2 | 6 17 | 9 | 5 | 8.0 | 8.2 | 7 15 | 4.9 | 5 | 9 | 9.2 | 8 13 | 0 | 6 | 9 | 10.1 | 9 11 | 0 | 6 | 9 | 11.1 | 10 9 | 1 | 7 | 9 | 12.1 | 11 8 | 1 | 7 | | | | | |
| 24 | 2 | 5 | 6 28 | 9 | 4 | 1 | 4 | 7 25 | 9 | 5 | 9.1 | 4 | 8 22 | 5.9 | 5 | 10.1 | 4 | 9 20 | 0 | 5 | 11.0 | 3 | 10 18 | 0 | 6 | 12.0 | 3 | 11 16 | 1 | 6 | | | | | |
| 25 | 3 | 7 | 6 38 | 9 | 3 | 3 | 7 | 7 35 | 9 | 4 | 3 | 6 | 8 32 | 9 | 4 | 2 | 6 | 9 29 | 6.9 | 4 | 2 | 6 | 10 27 | 0 | 5 | 2 | 5 | 11 24 | 0 | 5 | | | | | |
| 26 | 5 | 8.0 | 6 49 | 8 | 4.2 | 4 | 9 | 7 45 | 8 | 5.3 | 4 | 9 | 8 42 | 9 | 6.3 | 4 | 8 | 9 39 | 9 | 7.3 | 4 | 8 | 10 36 | 7.9 | 4 | 3 | 7 | 11 33 | 8.9 | 4 | | | | | |
| 27 | 7 | 2 | 6 59 | 3.8 | 1 | 6 | 9.2 | 7 55 | 8 | 2 | 6 | 10.1 | 8 52 | 8 | 2 | 5 | 11.1 | 9 48 | 8 | 2 | 5 | 12.0 | 10 44 | 9 | 8.3 | 5 | 13.0 | 11 41 | 9 | 9.3 | | | | | |
| 28 | 8 | 5 | 7 10 | 8 | 1 | 8 | 4 | 8 6 | 4.8 | 1 | 8 | 4 | 9 1 | 8 | 1 | 7 | 3 | 9 57 | 8 | 1 | 7 | 3 | 10 53 | 8 | 2 | 7 | 2 | 11 50 | 8 | 2 | | | | | |
| 29 | 8.0 | 7 | 7 21 | 8 | 0 | 9.0 | 7 | 8 16 | 8 | 0 | 9 | 6 | 9 11 | 5.8 | 0 | 9 | 5 | 10 7 | 8 | 0 | 9 | 5 | 11 2 | 8 | 1 | 8 | 4 | 11 58 | 8 | 1 | | | | | |
| 30 | 2 | 9.0 | 7 31 | 7 | 3.9 | 1 | 9 | 8 26 | 7 | 4.9 | 10.1 | 8 | 9 21 | 7 | 5.9 | 11.1 | 8 | 10 16 | 6.7 | 6.9 | 12.0 | 7 | 11 11 | 7 | 0 | 13.0 | 7 | 12 7 | 7 | 0 | | | | | |
| 31 | 4 | 2 | 7 42 | 7 | 8 | 3 | 10.2 | 8 36 | 7 | 8 | 3 | 11.1 | 9 31 | 7 | 8 | 2 | 12.0 | 10 25 | 7 | 8 | 2 | 13.0 | 11 20 | 7.7 | 7.9 | 2 | 9 | 12 15 | 8.7 | 8.9 | | | | | |
| 32 | 5 | 5 | 7 53 | 3.7 | 7 | 5 | 4 | 8 47 | 7 | 7 | 5 | 3 | 9 41 | 7 | 7 | 4 | 3 | 10 35 | 6 | 7 | 4 | 2 | 11 29 | 6 | 7 | 3 | 14.2 | 12 24 | 6 | 8 | | | | | |
| 33 | 7 | 8 | 8 4 | 7 | 6 | 7 | 7 | 8 57 | 4.6 | 6 | 6 | 6 | 9 51 | 6 | 6 | 6 | 5 | 10 44 | 6 | 6 | 6 | 5 | 11 38 | 6 | 6 | 5 | 4 | 12 33 | 6 | 6 | | | | | |
| 34 | 9 | 10.0 | 8 14 | 6 | 5 | 9 | 11.0 | 9 8 | 6 | 5 | 8 | 9 | 10 1 | 5.6 | 5 | 8 | 8 | 10 54 | 6 | 5 | 8 | 8 | 11 48 | 5 | 5 | 7 | 7 | 12 41 | 5 | 5 | | | | | |
| 35 | 9.1 | 3 | 8 25 | 6 | 3.4 | 10.1 | 2 | 9 18 | 6 | 4.4 | 11.0 | 12.2 | 10 11 | 6 | 5.4 | 12.0 | 13.1 | 11 4 | 6.5 | 6.4 | 13.0 | 14.0 | 11 57 | 5 | 7.4 | 9 | 9 | 12 50 | 5 | 8.4 | | | | | |
| 36 | 3 | 6 | 8 37 | 6 | 2 | 3 | 5 | 9 29 | 6 | 2 | 2 | 4 | 10 21 | 5 | 3 | 2 | 3 | 11 13 | 5 | 3 | 2 | 3 | 12 6 | 7.4 | 3 | 14.1 | 15.2 | 12 59 | 8.4 | 3 | | | | | |
| 37 | 5 | 9 | 8 48 | 3.6 | 1 | 5 | 8 | 9 40 | 6 | 1 | 4 | 7 | 10 31 | 5 | 1 | 4 | 5 | 11 23 | 4 | 1 | 4 | 5 | 12 16 | 4 | 1 | 3 | 5 | 13 8 | 3 | 1 | | | | | |
| 38 | 7 | 11.2 | 8 59 | 6 | 0 | 7 | 12.1 | 9 50 | 4.6 | 0 | 7 | 13.0 | 10 42 | 4 | 0 | 6 | 8 | 11 33 | 4 | 0 | 6 | 7 | 12 25 | 3 | 0 | 5 | 7 | 13 17 | 3 | 0 | | | | | |
| 39 | 10.0 | 5 | 9 10 | 5 | 2.9 | 9 | 4 | 10 1 | 5 | 3.9 | 9 | 3 | 10 52 | 5.4 | 4.9 | 8 | 14.1 | 11 43 | 3 | 5.9 | 8 | 15.0 | 12 35 | 3 | 6.9 | 8 | 9 | 13 26 | 2 | 7.9 | | | | | |
| 40 | 2 | 8 | 9 22 | 5 | 8 | 11.1 | 7 | 10 12 | 5 | 8 | 12.1 | 6 | 11 3 | 4 | 7 | 13.1 | 4 | 11 53 | 6.3 | 7 | 14.0 | 3 | 12 44 | 7.3 | 7 | 15.0 | 16.2 | 13 35 | 8.2 | 7 | | | | | |
| 41 | 4 | 12.2 | 9 33 | 5 | 6 | 4 | 13.1 | 10 23 | 5 | 6 | 4 | 14.0 | 11 13 | 3 | 6 | 3 | 8 | 12 4 | 3 | 6 | 3 | 6 | 12 54 | 2 | 6 | 2 | 5 | 13 44 | 1 | 6 | | | | | |
| 42 | 7 | 5 | 9 45 | 3.5 | 5 | 7 | 4 | 10 35 | 5 | 5 | 6 | 3 | 11 24 | 3 | 5 | 6 | 15.1 | 12 14 | 2 | 5 | 5 | 16.0 | 13 4 | 2 | 4 | 5 | 8 | 13 54 | 1 | 4 | | | | | |
| 43 | 11.0 | 8 | 9 57 | 4 | 2.4 | 9 | 7 | 10 46 | 4.5 | 3.3 | 9 | 6 | 11 35 | 5.3 | 4.3 | 8 | 4 | 12 24 | 2 | 5.3 | 8 | 3 | 13 14 | 2 | 6.3 | 7 | 17.1 | 14 3 | 0 | 3 | | | | | |
| 44 | 2 | 13.1 | 10 9 | 4 | 2 | 12.2 | 14.0 | 10 58 | 4 | 2 | 13.1 | 9 | 11 46 | 2 | 2 | 14.1 | 7 | 12 35 | 1 | 2 | 15.0 | 6 | 13 24 | 7.1 | 1 | 16.0 | 5 | 14 13 | 7.9 | 1 | | | | | |
| 45 | 5 | 4 | 10 21 | 4 | 1 | 5 | 3 | 11 10 | 4 | 0 | 4 | 15.2 | 11 58 | 2 | 0 | 4 | 16.1 | 12 46 | 6.1 | 0 | 3 | 9 | 13 34 | 1 | 0 | 3 | 8 | 14 23 | 9 | 6.9 | | | | | |
| 46 | 8 | 8 | 10 34 | 4 | 0 | 8 | 7 | 11 22 | 4 | 2.9 | 7 | 5 | 12 9 | 1 | 3.9 | 6 | 4 | 12 57 | 0 | 4.9 | 6 | 17.3 | 13 45 | 0 | 5.8 | 6 | 18.1 | 14 33 | 8 | 8 | | | | | |
| 47 | 12.1 | 14.2 | 10 46 | 3.3 | 1.9 | 13.0 | 15.0 | 11 34 | 3 | 8 | 14.0 | 9 | 12 21 | 5.1 | 7 | 9 | 7 | 13 8 | 0 | 8 | 9 | 6 | 13 55 | 0 | 7 | 8 | 4 | 14 43 | 8 | 6 | | | | | |
| 48 | 4 | 5 | 10 59 | 3 | 7 | 3 | 3 | 11 46 | 4.3 | 7 | 3 | 16.2 | 12 32 | 1 | 5 | 15.2 | 17.0 | 13 19 | 0 | 6 | 16.2 | 9 | 14 6 | 6.9 | 6 | 17.1 | 7 | 14 53 | 7.7 | 4 | | | | | |
| 49 | 7 | 8 | 11 12 | 3 | 5 | 7 | 7 | 11 58 | 3 | 5 | 6 | 5 | 12 44 | 0 | 4 | 5 | 4 | 13 31 | 5.9 | 4 | 5 | 18.2 | 14 17 | 9 | 4 | 4 | 19.1 | 15 3 | 7 | 6.2 | | | | | |
| 50 | 13.1 | 15.2 | 11 26 | 3 | 4 | 14.0 | 16.1 | 12 11 | 2 | 2.3 | 9 | 9 | 12 57 | 0 | 2 | 9 | 8 | 13 42 | 9 | 2 | 8 | 6 | 14 28 | 8 | 2 | 7 | 4 | 15 14 | 6 | 1 | | | | | |
| 51 | 4 | 6 | 11 39 | 3 | 3 | 3 | 5 | 12 24 | 2 | 2 | 15.2 | 17.3 | 13 9 | 4.9 | 0 | 16.2 | 18.2 | 13 54 | 9 | 1 | 17.1 | 19.0 | 14 39 | 7 | 1 | 18.1 | 8 | 15 25 | 6 | 0 | | | | | |
| 52 | 8 | 16.0 | 11 53 | 3.2 | 1 | 7 | 9 | 12 37 | 4.1 | 1 | 6 | 7 | 13 22 | 9 | 2.8 | 5 | 6 | 14 6 | 8 | 3.9 | 5 | 4 | 14 51 | 6.7 | 4.9 | 4 | 20.2 | 15 36 | 7.5 | 5.8 | | | | | |
| 53 | 14.2 | 4 | 12 7 | 2 | 0.9 | 15.1 | 17.3 | 12 51 | 1 | 1.9 | 9 | 18.1 | 13 35 | 8 | 6 | 9 | 19.0 | 14 19 | 5.7 | 7 | 9 | 8 | 15 3 | 6 | 7 | 7 | 6 | 15 47 | 4 | 6 | | | | | |
| 54 | 6 | 9 | 12 22 | 2 | 7 | 5 | 7 | 13 5 | 0 | 7 | 16.3 | 5 | 13 48 | 8 | 4 | 17.3 | 4 | 14 31 | 7 | 5 | 18.3 | 20.2 | 15 15 | 6 | 5 | 19.1 | 21.0 | 15 58 | 4 | 4 | | | | | |
| 55 | 15.0 | 17.4 | 12 36 | 2 | 5 | 9 | 18.2 | 13 19 | 0 | 5 | 8 | 19.0 | 14 1 | 7 | 1 | 7 | 8 | 14 44 | 6 | 3 | 7 | 6 | 15 27 | 5 | 3 | 6 | 4 | 16 10 | 3 | 2 | | | | | |
| 56 | 5 | 9 | 12 51 | 1 | 3 | 16.4 | 7 | 13 33 | 3.9 | 3 | 17.3 | 4 | 14 15 | 6 | 1.9 | 18.2 | 20.2 | 14 57 | 5 | 1 | 19.1 | 21.0 | 15 40 | 4 | 1 | 20.1 | 8 | 16 22 | 3 | 0 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 4 41 59 } II ARC 70° 29'.8 } 12° | | | | | | H. M. S. 4 46 16 } II 13° 71° 34'.1 } | | | | | | H. M. S. 4 50 34 } II 14° 72° 38'.5 } | | | | | | H. M. S. 4 54 52 } II 15° 73° 43'.1 } | | | | | | H. M. S. 4 59 11 } II 16° 74° 47'.7 } | | | | | | H. M. S. 5 3 30 } II 17° 75° 52'.5 } | | | | | |
|---|------|------|-------|------|------|---|------|-------|------|------|------|---|-------|------|------|------|------|---|------|------|------|------|-------|---|------|------|------|-------|------|--|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ |
| 22 | 12.7 | 12.8 | 11 58 | 10.2 | 10.9 | 13.7 | 13.8 | 12 57 | 11.3 | 11.9 | 14.6 | 14.8 | 13 57 | 12.4 | 12.9 | 15.6 | 15.8 | 14 56 | 13.4 | 13.9 | 16.6 | 16.8 | 15 56 | 14.5 | 15.0 | 17.6 | 17.8 | 16 55 | 15.6 | 16.0 | | | | | |
| 23 | 8 | 13.0 | 12 6 | 2 | 8 | 8 | 14.0 | 13 5 | 2 | 8 | 8 | 15.0 | 14 4 | 3 | 8 | 8 | 16.0 | 15 3 | 4 | 8 | 8 | 17.0 | 16 2 | 4 | 14.9 | 7 | 18.0 | 17 1 | 5 | 15.9 | | | | | |
| 24 | 13.0 | 3 | 12 14 | 1 | 7 | 14.0 | 2 | 13 12 | 1 | 7 | 9 | 2 | 14 11 | 2 | 7 | 9 | 2 | 15 9 | 3 | 7 | 9 | 2 | 16 8 | 3 | 8 | 9 | 2 | 17 7 | 4 | 8 | | | | | |
| 25 | 1 | 5 | 12 22 | 0 | 6 | 1 | 5 | 13 20 | 1 | 6 | 15.1 | 4 | 14 18 | 1 | 6 | 16.1 | 4 | 15 16 | 2 | 6 | 17.1 | 4 | 16 14 | 2 | 7 | 18.0 | 4 | 17 13 | 3 | 7 | | | | | |
| 26 | 3 | 7 | 12 30 | 0 | 5 | 3 | 7 | 13 27 | 0 | 5 | 3 | 7 | 14 25 | 1 | 5 | 2 | 6 | 15 23 | 1 | 5 | 2 | 6 | 16 21 | 14.1 | 5 | 2 | 6 | 17 19 | 15.2 | 6 | | | | | |
| 27 | 5 | 9 | 12 38 | 9.9 | 10.3 | 4 | 9 | 13 35 | 10.9 | 11.4 | 4 | 9 | 14 32 | 0 | 12.4 | 4 | 8 | 15 29 | 0 | 13.4 | 4 | 8 | 16 27 | 1 | 4 | 4 | 8 | 17 24 | 1 | 5 | | | | | |
| 28 | 6 | 14.2 | 12 46 | 8 | 2 | 14.6 | 15.1 | 13 43 | 9 | 2 | 6 | 16.1 | 14 39 | 11.9 | 3 | 6 | 17.1 | 15 36 | 12.9 | 3 | 5 | 18.0 | 16 33 | 0 | 14.3 | 5 | 19.0 | 17 30 | 0 | 15.3 | | | | | |
| 29 | 8 | 4 | 12 54 | 8 | 1 | 8 | 4 | 13 50 | 8 | 1 | 7 | 3 | 14 46 | 8 | 2 | 7 | 3 | 15 43 | 9 | 2 | 7 | 2 | 16 39 | 13.9 | 2 | 7 | 2 | 17 36 | 14.9 | 2 | | | | | |
| 30 | 14.0 | 6 | 13 2 | 7 | 0 | 9 | 6 | 13 58 | 7 | 0 | 9 | 5 | 14 54 | 8 | 0 | 9 | 5 | 15 50 | 8 | 1 | 9 | 5 | 16 46 | 8 | 1 | 8 | 4 | 17 42 | 8 | 1 | | | | | |
| 31 | 1 | 9 | 13 10 | 9.7 | 9.9 | 15.1 | 8 | 14 6 | 7 | 10.9 | 16.1 | 8 | 15 1 | 7 | 11.9 | 17.1 | 7 | 15 56 | 7 | 12.9 | 18.0 | 7 | 16 52 | 7 | 0 | 19.0 | 6 | 17 48 | 7 | 0 | | | | | |
| 32 | 3 | 15.1 | 13 18 | 6 | 8 | 3 | 16.1 | 14 13 | 10.6 | 8 | 2 | 17.0 | 15 8 | 6 | 8 | 2 | 18.0 | 16 3 | 6 | 8 | 2 | 9 | 16 59 | 6 | 13.8 | 2 | 9 | 17 54 | 6 | 14.8 | | | | | |
| 33 | 5 | 4 | 13 27 | 5 | 7 | 5 | 3 | 14 21 | 5 | 7 | 4 | 2 | 15 16 | 11.5 | 7 | 4 | 2 | 16 10 | 12.5 | 7 | 4 | 19.1 | 17 5 | 13.5 | 7 | 4 | 20.1 | 18 0 | 14.5 | 7 | | | | | |
| 34 | 7 | 6 | 13 35 | 5 | 5 | 6 | 5 | 14 29 | 5 | 5 | 6 | 5 | 15 23 | 5 | 6 | 6 | 4 | 16 17 | 5 | 6 | 6 | 4 | 17 11 | 5 | 6 | 5 | 3 | 18 6 | 4 | 6 | | | | | |
| 35 | 9 | 9 | 13 43 | 9.4 | 9.4 | 8 | 8 | 14 37 | 4 | 10.4 | 8 | 7 | 15 30 | 4 | 11.4 | 8 | 7 | 16 24 | 4 | 12.4 | 8 | 6 | 17 18 | 4 | 4 | 7 | 5 | 18 12 | 3 | 4 | | | | | |
| 36 | 15.1 | 16.1 | 13 52 | 4 | 3 | 16.0 | 17.1 | 14 45 | 4 | 3 | 17.0 | 9 | 15 38 | 3 | 3 | 18.0 | 9 | 16 31 | 3 | 3 | 9 | 8 | 17 25 | 3 | 13.3 | 9 | 7 | 18 18 | 3 | 14.3 | | | | | |
| 37 | 3 | 4 | 14 0 | 3 | 1 | 2 | 3 | 14 53 | 10.3 | 1 | 2 | 18.1 | 15 45 | 11.2 | 1 | 2 | 19.1 | 16 38 | 12.2 | 2 | 19.1 | 20.0 | 17 31 | 13.3 | 2 | 20.1 | 9 | 18 24 | 14.2 | 1 | | | | | |
| 38 | 5 | 6 | 14 9 | 2 | 0 | 5 | 5 | 15 1 | 2 | 0 | 4 | 4 | 15 53 | 2 | 0 | 4 | 3 | 16 45 | 1 | 0 | 4 | 3 | 17 38 | 2 | 0 | 3 | 21.2 | 18 30 | 1 | 0 | | | | | |
| 39 | 7 | 9 | 14 17 | 9.2 | 8.9 | 7 | 8 | 15 9 | 1 | 9.9 | 6 | 7 | 16 1 | 1 | 10.9 | 6 | 6 | 16 53 | 1 | 11.9 | 6 | 5 | 17 45 | 1 | 12.9 | 6 | 4 | 18 37 | 0 | 13.9 | | | | | |
| 40 | 9 | 17.1 | 14 26 | 1 | 7 | 9 | 18.1 | 15 17 | 1 | 7 | 9 | 19.0 | 16 9 | 0 | 7 | 8 | 9 | 17 0 | 0 | 7 | 8 | 8 | 17 52 | 0 | 7 | 8 | 7 | 18 43 | 13.9 | 7 | | | | | |
| 41 | 16.2 | 4 | 14 35 | 1 | 6 | 17.1 | 3 | 15 26 | 0 | 6 | 18.1 | 2 | 16 17 | 10.9 | 6 | 19.1 | 20.2 | 17 7 | 11.9 | 5 | 20.0 | 21.1 | 17 58 | 12.9 | 5 | 21.0 | 22.0 | 18 50 | 8 | 5 | | | | | |
| 42 | 4 | 7 | 14 44 | 0 | 4 | 4 | 6 | 15 34 | 9.9 | 4 | 4 | 5 | 16 25 | 9 | 4 | 3 | 4 | 17 15 | 8 | 4 | 3 | 3 | 18 5 | 9 | 4 | 2 | 2 | 18 56 | 7 | 4 | | | | | |
| 43 | 7 | 18.0 | 14 53 | 8.9 | 3 | 7 | 9 | 15 43 | 9 | 3 | 6 | 8 | 16 33 | 8 | 2 | 6 | 7 | 17 23 | 7 | 2 | 5 | 6 | 18 13 | 8 | 2 | 5 | 5 | 19 3 | 6 | 2 | | | | | |
| 44 | 17.0 | 4 | 15 2 | 8 | 1 | 9 | 19.2 | 15 51 | 8 | 1 | 9 | 20.1 | 16 41 | 7 | 1 | 8 | 21.0 | 17 30 | 6 | 0 | 8 | 9 | 18 20 | 7 | 0 | 8 | 8 | 19 9 | 5 | 0 | | | | | |
| 45 | 2 | 7 | 15 11 | 8 | 7.9 | 18.2 | 5 | 16 0 | 7 | 8.9 | 19.1 | 4 | 16 49 | 10.6 | 9.9 | 20.1 | 3 | 17 38 | 11.5 | 10.9 | 21.1 | 22.2 | 18 27 | 6 | 11.9 | 22.0 | 23.1 | 19 16 | 13.4 | 12.9 | | | | | |
| 46 | 5 | 19.0 | 15 21 | 7 | 8 | 5 | 9 | 16 9 | 6 | 8 | 4 | 7 | 16 58 | 5 | 8 | 4 | 6 | 17 46 | 4 | 8 | 3 | 4 | 18 34 | 12.5 | 8 | 3 | 3 | 19 23 | 3 | 7 | | | | | |
| 47 | 8 | 3 | 15 30 | 7 | 7 | 7 | 20.2 | 16 18 | 9.6 | 6 | 6 | 21.0 | 17 6 | 4 | 6 | 6 | 9 | 17 54 | 4 | 6 | 5 | 7 | 18 42 | 3 | 6 | 5 | 6 | 19 30 | 2 | 5 | | | | | |
| 48 | 18.0 | 6 | 15 40 | 8.6 | 5 | 19.0 | 5 | 16 27 | 5 | 5 | 9 | 3 | 17 15 | 3 | 4 | 9 | 22.2 | 18 2 | 3 | 4 | 8 | 23.0 | 18 50 | 2 | 4 | 7 | 9 | 19 37 | 1 | 3 | | | | | |
| 49 | 3 | 9 | 15 50 | 6 | 3 | 3 | 8 | 16 37 | 5 | 3 | 20.2 | 6 | 17 24 | 10.2 | 2 | 21.2 | 5 | 18 10 | 11.2 | 2 | 22.1 | 3 | 18 57 | 1 | 2 | 23.0 | 24.2 | 19 44 | 0 | 1 | | | | | |
| 50 | 6 | 20.3 | 16 0 | 5 | 1 | 6 | 21.1 | 16 46 | 4 | 1 | 5 | 22.0 | 17 32 | 2 | 0 | 5 | 8 | 18 19 | 1 | 0 | 4 | 7 | 19 5 | 0 | 10.9 | 3 | 5 | 19 51 | 12.9 | 11.9 | | | | | |
| 51 | 9 | 6 | 16 10 | 4 | 6.9 | 9 | 5 | 16 56 | 9.3 | 7.9 | 8 | 3 | 17 41 | 1 | 8.8 | 8 | 23.2 | 18 27 | 0 | 9.8 | 7 | 24.0 | 19 13 | 11.9 | 7 | 6 | 9 | 19 59 | 8 | 7 | | | | | |
| 52 | 19.3 | 21.0 | 16 21 | 8.3 | 7 | 20.2 | 8 | 17 6 | 2 | 7 | 21.1 | 6 | 17 51 | 0 | 6 | 22.1 | 5 | 18 36 | 10.9 | 6 | 23.0 | 3 | 19 21 | 8 | 5 | 9 | 25.2 | 20 6 | 6 | 5 | | | | | |
| 53 | 7 | 4 | 16 31 | 3 | 5 | 6 | 22.2 | 17 16 | 1 | 5 | 5 | 23.0 | 18 0 | 9.9 | 4 | 4 | 8 | 18 45 | 8 | 4 | 4 | 6 | 19 29 | 6 | 3 | 24.3 | 5 | 20 14 | 8 | 3 | | | | | |
| 54 | 20.1 | 8 | 16 42 | 2 | 3 | 21.0 | 6 | 17 26 | 0 | 3 | 9 | 4 | 18 10 | 8 | 2 | 8 | 24.2 | 18 54 | 7 | 2 | 8 | 25.0 | 19 38 | 5 | 1 | 7 | 8 | 20.2 | 12.3 | 1 | | | | | |
| 55 | 5 | 22.2 | 16 53 | 1 | 1 | 4 | 23.0 | 17 36 | 8.9 | 0 | 22.3 | 8 | 18 20 | 7 | 0 | 23.2 | 6 | 19 3 | 6 | 8.9 | 12 | 4 | 19 46 | 4 | 9.8 | 25.1 | 26.2 | 20 51 | | 10.8 | | | | | |
| 56 | 21.0 | 6 | 17 4 | 0 | 5.9 | 9 | 4 | 17 47 | 8 | 6.8 | 8 | 24.2 | 18 30 | 6 | 7.8 | 7 | 25.0 | 19 12 | 5 | 7 | 6 | 8 | 19 58 | 2 | 6 | 5 | 6 | 20 3 | 1 | 5 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

16

UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 5 3 30 } II ARC 75° 52' 5 } 17° | | | | | | H. M. S. 5 7 49 } II 18° 76° 57' 3 } 18° | | | | | | H. M. S. 5 12 9 } II 19° 78° 2' 2 } 19° | | | | | | H. M. S. 5 16 29 } II 20° 79° 7' 2 } 20° | | | | | | H. M. S. 5 20 49 } II 21° 80° 12' 3 } 21° | | | | | | H. M. S. 5 25 10 } II 22° 81° 17' 4 } 22° | | | | | |
|--|------|------|-------|------|------|--|------|-------|------|------|------|---|-------|------|------|------|------|--|------|------|------|------|-------|---|------|------|------|-------|------|---|------|--|--|--|--|
| II | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ☊ | ☋ | ☌ | ☍ | ☎ | ☊ | ☋ | ☌ | ☍ | ☎ | ☊ | ☋ | ☌ | ☍ | ☎ | ☊ | ☋ | ☌ | ☍ | ☎ | ☊ | ☋ | ☌ | ☍ | ☎ | ☊ | ☋ | ☌ | ☍ | ☎ | | | | | |
| 22 | 17.6 | 17.8 | 16.55 | 15.6 | 16.0 | 18.6 | 18.8 | 17.55 | 16.6 | 17.1 | 19.6 | 19.8 | 18.55 | 17.7 | 18.1 | 20.6 | 20.8 | 19.55 | 18.7 | 19.1 | 21.6 | 21.8 | 20.55 | 19.8 | 20.2 | 22.6 | 22.8 | 21.55 | 20.8 | 21.2 | | | | | |
| 23 | 7 | 18.0 | 17 | 1 | 5 | 15.9 | 7 | 19.0 | 18 | 1 | 5 | 0 | 7 | 20.0 | 19 | 0 | 6 | 0 | 7 | 21.0 | 20 | 0 | 6 | 0 | 7 | 22.0 | 20 | 59 | 6 | 0 | 7 | | | | |
| 24 | 9 | 2 | 17 | 7 | 4 | 8 | 9 | 2 | 18 | 6 | 4 | 16.8 | 9 | 2 | 19 | 5 | 5 | 17.9 | 9 | 1 | 20 | 4 | 5 | 18.9 | 9 | 2 | 21 | 3 | 5 | 19.9 | 9 | | | | |
| 25 | 18.0 | 4 | 17 | 13 | 3 | 7 | 19.0 | 4 | 18 | 11 | 3 | 7 | 20.0 | 4 | 19 | 10 | 4 | 7 | 21.0 | 3 | 20 | 9 | 4 | 8 | 22.0 | 3 | 21 | 7 | 4 | 8 | 23.0 | | | | |
| 26 | 2 | 6 | 17 | 19 | 15.2 | 6 | 2 | 6 | 18 | 17 | 16.2 | 6 | 2 | 6 | 19 | 15 | 17.3 | 6 | 2 | 5 | 20 | 13 | 18.3 | 6 | 2 | 5 | 21 | 12 | 19.3 | 7 | 2 | | | | |
| 27 | 4 | 8 | 17 | 24 | 1 | 5 | 3 | 8 | 18 | 22 | 1 | 5 | 3 | 8 | 19 | 20 | 1 | 5 | 3 | 7 | 20 | 18 | 2 | 5 | 3 | 7 | 21 | 16 | 2 | 6 | 3 | | | | |
| 28 | 5 | 19.0 | 17 | 30 | 0 | 15.3 | 5 | 20.0 | 18 | 27 | 0 | 16.4 | 5 | 21.0 | 19 | 25 | 0 | 17.4 | 5 | 9 | 20 | 22 | 1 | 18.4 | 5 | 9 | 21 | 20 | 1 | 19.4 | 5 | | | | |
| 29 | 7 | 2 | 17 | 36 | 14.9 | 2 | 7 | 2 | 18 | 33 | 15.9 | 2 | 7 | 2 | 19 | 30 | 16.9 | 3 | 6 | 22.1 | 20 | 27 | 0 | 3 | 6 | 23.1 | 21 | 24 | 0 | 3 | 23.6 | | | | |
| 30 | 8 | 4 | 17 | 42 | 8 | 1 | 8 | 4 | 18 | 38 | 8 | 1 | 8 | 4 | 19 | 35 | 8 | 1 | 8 | 3 | 20 | 31 | 17.8 | 1 | 8 | 3 | 21 | 28 | 18.9 | 2 | 8 | | | | |
| 31 | 19.0 | 6 | 17 | 48 | 7 | 0 | 20.0 | 6 | 18 | 44 | 7 | 0 | 21.0 | 6 | 19 | 40 | 7 | 0 | 22.0 | 5 | 20 | 36 | 7 | 0 | 23.0 | 5 | 21 | 32 | 7 | 0 | 9 | | | | |
| 32 | 2 | 9 | 17 | 54 | 6 | 14.8 | 2 | 8 | 18 | 49 | 6 | 15.9 | 2 | 8 | 19 | 45 | 6 | 16.9 | 1 | 8 | 20 | 41 | 6 | 17.9 | 1 | 7 | 21 | 36 | 6 | 18.9 | 24.1 | | | | |
| 33 | 4 | 20.1 | 18 | 0 | 14.5 | 7 | 3 | 21.0 | 18 | 55 | 15.5 | 7 | 3 | 22.0 | 19 | 50 | 5 | 7 | 3 | 23.0 | 20 | 45 | 5 | 7 | 3 | 9 | 21 | 40 | 5 | 8 | 3 | | | | |
| 34 | 5 | 3 | 18 | 6 | 4 | 6 | 5 | 3 | 19 | 0 | 4 | 6 | 5 | 2 | 19 | 55 | 16.4 | 6 | 5 | 2 | 20 | 50 | 4 | 6 | 5 | 24.1 | 21 | 45 | 18.4 | 6 | 5 | | | | |
| 35 | 7 | 5 | 18 | 12 | 3 | 4 | 7 | 5 | 19 | 6 | 3 | 4 | 7 | 4 | 20 | 0 | 3 | 4 | 7 | 4 | 20 | 55 | 17.3 | 4 | 7 | 3 | 21 | 49 | 3 | 5 | 6 | | | | |
| 36 | 9 | 7 | 18 | 18 | 3 | 14.3 | 9 | 7 | 19 | 12 | 3 | 15.3 | 9 | 6 | 20 | 5 | 2 | 16.3 | 9 | 5 | 20 | 59 | 2 | 17.3 | 8 | 5 | 21 | 53 | 2 | 18.3 | 8 | | | | |
| 37 | 20.1 | 9 | 18 | 24 | 14.2 | 1 | 21.1 | 9 | 19 | 17 | 15.2 | 1 | 22.1 | 8 | 20 | 11 | 1 | 1 | 23.1 | 7 | 21 | 4 | 1 | 1 | 24.0 | 7 | 21 | 57 | 0 | 1 | 25.0 | | | | |
| 38 | 3 | 21.2 | 18 | 30 | 1 | 0 | 3 | 22.1 | 19 | 23 | 1 | 0 | 3 | 23.0 | 20 | 16 | 0 | 0 | 3 | 24.0 | 21 | 9 | 0 | 0 | 2 | 9 | 22 | 2 | 17.9 | 0 | 2 | | | | |
| 39 | 6 | 4 | 18 | 37 | 0 | 13.9 | 5 | 4 | 19 | 29 | 0 | 14.8 | 5 | 3 | 20 | 21 | 15.9 | 15.8 | 5 | 2 | 21 | 14 | 16.9 | 16.8 | 4 | 25.1 | 22 | 6 | 8 | 17.8 | 4 | | | | |
| 40 | 8 | 7 | 18 | 43 | 13.9 | 7 | 7 | 6 | 19 | 35 | 14.9 | 7 | 7 | 5 | 20 | 27 | 8 | 7 | 7 | 5 | 21 | 19 | 8 | 7 | 6 | 4 | 22 | 10 | 7 | 7 | 6 | | | | |
| 41 | 21.0 | 22.0 | 18 | 50 | 8 | 5 | 22.0 | 9 | 19 | 41 | 8 | 5 | 9 | 8 | 20 | 32 | 7 | 5 | 9 | 7 | 21 | 23 | 7 | 5 | 9 | 6 | 22 | 15 | 6 | 5 | 8 | | | | |
| 42 | 2 | 2 | 18 | 56 | 7 | 4 | 2 | 23.1 | 19 | 47 | 7 | 3 | 23.2 | 24.0 | 20 | 38 | 6 | 3 | 24.1 | 25.0 | 21 | 28 | 6 | 3 | 25.1 | 9 | 22 | 19 | 17.4 | 3 | 26.1 | | | | |
| 43 | 5 | 5 | 19 | 3 | 6 | 2 | 5 | 4 | 19 | 53 | 6 | 2 | 4 | 3 | 20 | 43 | 4 | 1 | 4 | 2 | 21 | 34 | 16.5 | 1 | 3 | 26.1 | 22 | 24 | 3 | 1 | 3 | | | | |
| 44 | 8 | 8 | 19 | 9 | 5 | 0 | 7 | 7 | 19 | 59 | 14.5 | 0 | 7 | 6 | 20 | 49 | 15.3 | 0 | 6 | 5 | 21 | 39 | 3 | 15.9 | 6 | 4 | 22 | 29 | 2 | 16.9 | 6 | | | | |
| 45 | 22.0 | 23.1 | 19 | 16 | 13.4 | 12.9 | 23.0 | 24.0 | 20 | 5 | 4 | 13.9 | 9 | 9 | 20 | 55 | 2 | 14.9 | 9 | 7 | 21 | 44 | 2 | 8 | 9 | 6 | 22 | 33 | 0 | 8 | 8 | | | | |
| 46 | 3 | 3 | 19 | 23 | 3 | 7 | 2 | 2 | 20 | 12 | 2 | 7 | 24.1 | 25.1 | 21 | 0 | 1 | 7 | 25.1 | 26.0 | 21 | 49 | 1 | 6 | 26.1 | 9 | 22 | 38 | 16.9 | 6 | 27.0 | | | | |
| 47 | 5 | 6 | 19 | 30 | 2 | 5 | 4 | 4 | 20 | 18 | 0 | 5 | 3 | 3 | 21 | 6 | 0 | 5 | 3 | 2 | 21 | 55 | 15.9 | 4 | 3 | 27.2 | 22 | 43 | 7 | 4 | 2 | | | | |
| 48 | 7 | 9 | 19 | 37 | 1 | 3 | 7 | 7 | 20 | 25 | 13.9 | 3 | 6 | 6 | 21 | 12 | 14.9 | 2 | 6 | 5 | 22 | 0 | 8 | 2 | 5 | 5 | 22 | 48 | 6 | 2 | 4 | | | | |
| 49 | 23.0 | 24.2 | 19 | 44 | 0 | 1 | 24.0 | 25.1 | 20 | 31 | 8 | 1 | 9 | 9 | 21 | 18 | 8 | 0 | 9 | 8 | 22 | 5 | 7 | 0 | 8 | 7 | 22 | 53 | 4 | 0 | 7 | | | | |
| 50 | 3 | 5 | 19 | 51 | 12.9 | 11.9 | 3 | 4 | 20 | 38 | 7 | 12.9 | 25.2 | 26.2 | 21 | 24 | 6 | 13.8 | 26.2 | 27.1 | 22 | 11 | 5 | 14.8 | 27.1 | 28.0 | 22 | 58 | 16.3 | 15.8 | 28.0 | | | | |
| 51 | 6 | 9 | 19 | 59 | 8 | 7 | 6 | 7 | 20 | 45 | 5 | 7 | 5 | 5 | 21 | 31 | 5 | 6 | 5 | 4 | 22 | 17 | 15.4 | 6 | 4 | 3 | 23 | 3 | 2 | 6 | 3 | | | | |
| 52 | 9 | 25.2 | 20 | 6 | 6 | 5 | 9 | 26.0 | 20 | 52 | 13.4 | 5 | 8 | 8 | 21 | 37 | 14.3 | 4 | 8 | 7 | 22 | 23 | 2 | 4 | 7 | 6 | 23 | 8 | 1 | 4 | 6 | | | | |
| 53 | 24.3 | 5 | 20 | 14 | 5 | 3 | 25.2 | 3 | 20 | 59 | 3 | 3 | 26.1 | 27.1 | 21 | 44 | 2 | 2 | 27.1 | 28.0 | 22 | 29 | 0 | 2 | 28.0 | 9 | 23 | 13 | 15.9 | 1 | 9 | | | | |
| 54 | 7 | 8 | 20 | 22 | 12.3 | 1 | 6 | 7 | 21 | 6 | 2 | 0 | 5 | 5 | 21 | 50 | 0 | 12.9 | 5 | 3 | 22 | 35 | 14.9 | 13.9 | 4 | 29.2 | 23 | 19 | 7 | 14.8 | 29.3 | | | | |
| 55 | 25.1 | 26.2 | 20 | 30 | 2 | 10.8 | 26.0 | 27.1 | 21 | 13 | 0 | 11.7 | 9 | 9 | 21 | 57 | 13.9 | 6 | 9 | 7 | 22 | 41 | 7 | 6 | 8 | 5 | 23 | 24 | 5 | 5 | 7 | | | | |
| 56 | 5 | 6 | 20 | 38 | 1 | 5 | 4 | 5 | 21 | 21 | 12.9 | 4 | 27.3 | 28.3 | 22 | 4 | 7 | 3 | 28.3 | 29.1 | 22 | 47 | 5 | 3 | 29.2 | 9 | 23 | 30 | 3 | 2 | 0.1 | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 5 29 30 } II ARC 82° 22'.6 } 23° | | | | | | H. M. S. 5 33 51 } II 24° 83° 27'.8 } | | | | | | H. M. S. 5 38 12 } II 25° 84° 33'.1 } | | | | | | H. M. S. 5 42 34 } II 26° 85° 38'.5 } | | | | | | H. M. S. 5 46 55 } II 27° 86° 43'.8 } | | | | | | H. M. S. 5 51 17 } II 28° 87° 49'.2 } | | | | | |
|---|--------|---------|-----------|------|------|---|---------|-----------|------|------|--------|---|-----------|------|------|--------|---------|---|------|------|--------|-----------|-------|---|------|-----------|-----------|---------|------|---|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ☉ | ☿ | ♊ | ♈ | ♎ | ☉ | ☿ | ♊ | ♈ | ♎ | ☉ | ☿ | ♊ | ♈ | ♎ | ☉ | ☿ | ♊ | ♈ | ♎ | ☉ | ☿ | ♊ | ♈ | ♎ | ☉ | ☿ | ♊ | ♈ | ♎ | | | | | |
| 22 | 23.6 | 23.8 | 22 56 | 21.8 | 22.2 | 24.6 | 24.8 | 23 56 | 22.8 | 23.2 | 25.6 | 25.8 | 24 57 | 23.8 | 24.3 | 26.6 | 26.8 | 25 57 | 24.8 | 25.3 | 27.6 | 27.8 | 26 58 | 25.9 | 26.3 | 28.6 | 28.9 | 27 58 | 26.9 | 27.3 | | | | | |
| 23 | 7 24.0 | 22 59 | 7 | 1 | | 7 25.0 | 23 59 | 6 | 1 | | 7 26.0 | 24 59 | 8 | 1 | | 7 27.0 | 25 59 | 7 | 2 | | 7 28.0 | 26 59 | 8 | 2 | | 7 29.0 | 27 59 | 8 | 2 | | | | | | |
| 24 | 9 | 1 23 2 | 6 | 0 | | 8 | 2 24 2 | 5 | 0 | | 9 | 1 25 1 | 6 | 0 | | 9 | 2 26 1 | 6 | 0 | | 9 | 2 27 1 | 6 | 0 | | 9 | 2 28 0 | 6 | 1 | | | | | | |
| 25 | 24.0 | 3 23 5 | 5 | 21.8 | | 25.0 | 3 24 4 | 4 | 22.9 | | 26.0 | 3 25 3 | 5 | 23.9 | | 27.0 | 3 26 3 | 5 | 24.9 | | 28.0 | 3 27 2 | 5 | 25.9 | | 29.0 | 4 28 1 | 5 | 26.9 | | | | | | |
| 26 | 2 | 5 23 9 | 21.4 | 7 | | 1 | 5 24 7 | 22.3 | 7 | | 2 | 5 25 6 | 23.3 | 8 | | 2 | 5 26 4 | 24.3 | 8 | | 2 | 5 27 3 | 25.4 | 8 | | 2 | 5 28 2 | 26.4 | 8 | | | | | | |
| 27 | 3 | 7 23 12 | 2 | 6 | | 3 | 7 24 10 | 2 | 6 | | 3 | 7 25 8 | 2 | 6 | | 3 | 7 26 6 | 2 | 6 | | 3 | 7 27 5 | 2 | 6 | | 3 | 7 28 3 | 2 | 7 | | | | | | |
| 28 | 5 | 9 23 15 | 1 | 5 | | 4 | 9 24 13 | 0 | 5 | | 5 | 9 25 10 | 1 | 5 | | 5 | 9 26 8 | 1 | 5 | | 5 | 9 27 6 | 1 | 5 | | 5 | 9 28 4 | 1 | 5 | | | | | | |
| 29 | 24.6 | 25.1 | 23 18 | 0 | 21.3 | 25.6 | 26.1 | 24 15 | 21.9 | 22.3 | 26.6 | 27.0 | 25 13 | 22.9 | 23.3 | 27.6 | 28.0 | 26 10 | 23.9 | 24.4 | 28.6 | 29.0 | 27 7 | 24.9 | 25.4 | 29.6 | ☉ | 28 5 | 25.9 | 26.4 | | | | | |
| 30 | 8 | 2 23 21 | 20.9 | 2 | | 8 | 2 24 18 | 8 | 2 | | 8 | 2 25 15 | 8 | 2 | | 8 | 2 26 12 | 8 | 2 | | 8 | 2 27 9 | 8 | 2 | | 8 | 0.2 28 6 | 8 | 2 | | | | | | |
| 31 | 9 | 4 23 25 | 8 | 0 | | 9 | 4 24 21 | 7 | 1 | | 9 | 4 25 17 | 7 | 1 | | 9 | 4 26 14 | 7 | 1 | | 9 | 3 27 10 | 7 | 1 | | 9 | 3 28 7 | 7 | 1 | | | | | | |
| 32 | 25.1 | 6 23 28 | 6 | 20.9 | | 26.1 | 6 24 24 | 6 | 21.9 | | 27.1 | 6 25 20 | 5 | 22.9 | | 28.1 | 6 26 16 | 5 | 23.9 | | 29.1 | 5 27 12 | 5 | 24.9 | | 0.1 | 5 28 8 | 5 | 25.9 | | | | | | |
| 33 | 3 | 8 23 31 | 5 | 8 | | 3 | 8 24 27 | 21.4 | 8 | | 3 | 8 25 22 | 22.4 | 8 | | 3 | 7 26 17 | 23.4 | 8 | | 2 | 7 27 13 | 24.4 | 8 | | 2 | 7 28 9 | 25.4 | 8 | | | | | | |
| 34 | 4 | 26.0 | 23 34 | 20.4 | 6 | 4 | 27.0 | 24 29 | 3 | 6 | 4 | 28.0 | 25 24 | 3 | 6 | 4 | 9 26 19 | 2 | 6 | | 4 | 9 27 14 | 3 | 6 | | 4 | 5 28 10 | 2 | 6 | | | | | | |
| 35 | 6 | 2 23 38 | 3 | 5 | | 6 | 2 24 32 | 2 | 5 | | 6 | 1 25 27 | 1 | 5 | | 6 | 29.1 | 26 21 | 1 | 5 | ☉ | 0.1 27 16 | 1 | 5 | | 6 | 1.0 28 11 | 1 | 4 | | | | | | |
| 36 | 8 | 4 23 41 | 1 | 20.3 | | 8 | 4 24 35 | 0 | 21.3 | | 8 | 3 25 29 | 0 | 22.3 | | 8 | 3 26 23 | 0 | 23.3 | | 8 | 3 27 17 | 0 | 3 | | 8 | 2 28 11 | 24.9 | 3 | | | | | | |
| 37 | 26.0 | 7 23 44 | 0 | 1 | | 27.0 | 6 24 38 | 20.9 | 1 | | 28.0 | 5 25 31 | 21.9 | 1 | 0 | 5 | 26 25 | 22.8 | 1 | 9 | 4 | 27 19 | 23.9 | 1 | 9 | 4 | 28 12 | 7 | 1 | | | | | | |
| 38 | 2 | 9 23 48 | 19.9 | 0 | | 2 | 8 24 41 | 8 | 0 | | 2 | 7 25 34 | 7 | 0 | | 29.2 | 7 26 27 | 7 | 0 | ☉ | 0.1 | 6 27 20 | 8 | 23.9 | 1.1 | 5 | 28 13 | 6 | 24.9 | | | | | | |
| 39 | 4 | 27.1 | 23 51 | 7 | 19.8 | 4 | 28.0 | 24 44 | 7 | 20.8 | 4 | 9 25 36 | 6 | 21.8 | 3 | 9 | 26 29 | 5 | 22.8 | 3 | 8 | 27 22 | 6 | 8 | 3 | 7 | 28 14 | 4 | 7 | | | | | | |
| 40 | 6 | 3 23 54 | 6 | 6 | | 6 | 2 24 47 | 6 | 6 | | 6 | 29.1 | 25 39 | 4 | 6 | 5 | ☉ | 0.1 26 31 | 4 | 6 | 5 | 1.0 27 23 | 4 | 6 | 5 | 9 | 28 15 | 2 | 6 | | | | | | |
| 41 | 8 | 5 23 58 | 5 | 4 | | 8 | 5 24 50 | 20.5 | 4 | | 8 | 3 25 41 | 21.3 | 4 | 8 | 3 | 26 33 | 2 | 4 | 7 | 2 | 27 25 | 3 | 4 | 7 | 2.1 28 16 | 1 | 4 | | | | | | | |
| 42 | 27.1 | 7 24 1 | 19.3 | 3 | | 28.0 | 7 24 53 | 3 | 2 | | 29.0 | 5 25 44 | 1 | 2 | ☉ | 5 | 26 35 | 0 | 2 | 9 | 4 | 27 26 | 1 | 2 | 9 | 3 | 28 17 | 23.9 | 2 | | | | | | |
| 43 | 3 | 9 24 5 | 2 | 1 | | 2 | 9 24 56 | 2 | 0 | | 2 | 7 25 46 | 0 | 0 | 0.2 | 8 | 26 37 | 21.9 | 0 | 1.2 | 7 | 27 28 | 22.9 | 0 | 2.1 | 5 | 28 18 | 7 | 0 | | | | | | |
| 44 | 5 | 28.2 | 24 9 | 0 | 18.9 | 4 | 29.2 | 24 59 | 0 | 19.8 | 5 | 9 25 49 | 20.8 | 20.9 | 4 | 1.0 | 26 39 | 7 | 21.8 | 4 | 9 | 27 29 | 8 | 22.8 | 3 | 7 | 28 19 | 6 | 23.8 | | | | | | |
| 45 | 8 | 4 24 12 | 18.9 | 7 | | 6 | 4 25 2 | 19.8 | 6 | | 7 | ☉ | 0.1 25 51 | 6 | 7 | 6 | 2 26 41 | 5 | 6 | 6 | 2 | 1 27 31 | 6 | 6 | 5 | 9 | 28 20 | 4 | 6 | | | | | | |
| 46 | 28.0 | 7 24 16 | 7 | 5 | | 8 | 6 25 5 | 7 | 5 | | 9 | 4 25 54 | 5 | 5 | 8 | 4 | 26 43 | 4 | 4 | 8 | 3 | 27 32 | 4 | 4 | 7 | 3 | 1 28 21 | 3 | 4 | | | | | | |
| 47 | 2 | 9 24 20 | 5 | 3 | | 29.0 | 8 25 8 | 5 | 3 | ☉ | 0.1 | 6 25 57 | 3 | 2 | 1.0 | 6 | 26 45 | 3 | 2 | 2.0 | 5 | 27 34 | 2 | 2 | 9 | 4 | 28 22 | 1 | 2 | | | | | | |
| 48 | 4 | 29.1 | 24 23 | 4 | 1 | 3 | ☉ | 0.1 25 11 | 3 | 1 | 3 | 9 25 59 | 1 | 0 | 2 | 8 | 26 47 | 1 | 0 | 2 | 7 | 27 35 | 0 | 0 | 3.2 | 6 | 28 24 | 22.9 | 0 | | | | | | |
| 49 | 7 | 4 24 27 | 18.2 | 17.9 | | 6 | 3 25 15 | 2 | 18.9 | 6 | 1.1 | 26 2 | 19.9 | 19.8 | 5 | 2.1 | 26 50 | 20.9 | 20.8 | 5 | 9 | 27 37 | 21.8 | 21.8 | 4 | 8 | 28 25 | 7 | 22.8 | | | | | | |
| 50 | 29.0 | 7 24 31 | 1 | 7 | | 9 | 6 25 18 | 0 | 6 | | 9 | 4 26 5 | 8 | 6 | 8 | 3 | 26 52 | 7 | 6 | 8 | 3 | 27 39 | 6 | 5 | 7 | 4 | 1 28 26 | 5 | 5 | | | | | | |
| 51 | 3 | 9 24 35 | 0 | 5 | ☉ | 0.2 | 9 25 21 | 18.8 | 4 | 1.2 | 6 | 26 8 | 7 | 4 | 2.1 | 6 | 26 54 | 5 | 3 | 3.1 | 5 | 27 40 | 4 | 3 | 4.0 | 3 | 28 27 | 3 | 2 | | | | | | |
| 52 | 6 | ☉ | 0.2 24 39 | 17.8 | 3 | 5 | 1.1 | 25 25 | 6 | 2 | 5 | 9 26 11 | 5 | 1 | 4 | 8 | 26 56 | 3 | 1 | 4 | 7 | 27 42 | 2 | 0 | 3 | 5 | 28 28 | 1 | 21.9 | | | | | | |
| 53 | 9 | 5 24 43 | 6 | 0 | | 8 | 4 25 29 | 4 | 17.9 | 8 | 2.2 | 26 14 | 3 | 18.8 | 7 | 3.0 | 26 59 | 1 | 19.8 | 7 | 9 | 27 44 | 0 | 20.7 | 6 | 7 | 28 29 | 21.9 | 6 | | | | | | |
| 54 | ☉ | 0.2 | 8 24 48 | 4 | 16.7 | 1.1 | 7 | 25 32 | 2 | 6 | 2.1 | 5 | 26 17 | 1 | 5 | 3.0 | 3 | 27 1 | 19.9 | 5 | 4.0 | 4 | 27 46 | 20.8 | 4 | 9 | 5 | 0 28 31 | 7 | 3 | | | | | |
| 55 | 6 | 1.1 | 24 52 | 2 | 4 | 5 | 2.0 | 25 36 | 0 | 3 | 5 | 8 | 26 20 | 18.9 | 2 | 4 | 6 | 27 4 | 7 | 2 | 3 | 5 | 27 48 | 6 | 1 | 5.2 | 3 | 28 32 | 4 | 0 | | | | | |
| 56 | 1.0 | 4 | 24 56 | 0 | 1 | 9 | 3 | 25 40 | 17.8 | 0 | 9 | 3.1 | 26 23 | 7 | 17.9 | 8 | 9 | 27 6 | 5 | 18.9 | 7 | 8 | 27 50 | 4 | 19.8 | 6 | 6 | 28 33 | 1 | 20.7 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

18 UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 5 51 17 } II ARC 87° 49'.2 } 28° | | | | | | H. M. S. 5 55 38 } II 29° 88° 54'.6 } | | | | | | H. M. S. 6 0 0 } 30° 90° 0'.0 } | | | | | | H. M. S. 6 4 22 } 31° 91° 5'.4 } | | | | | | H. M. S. 6 8 43 } 32° 92° 10'.8 } | | | | | | H. M. S. 6 13 5 } 33° 93° 16'.2 } | | | | | | | | | |
|---|------|------|-------|------|------|---|------|-------|------|------|------|---------------------------------------|------|------|------|------|------|--|------|-----|-----|-----|------|---|------|-----|-----|-----|------|---|------|-----|---|----|------|------|-----|---|--|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | | | | |
| Lat. | ☾ | ☿ | ♊ | ♋ | ♌ | ☾ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | ☿ | ♊ | ♋ | ♌ | |
| 22 | 28.6 | 28.9 | 27.58 | 26.9 | 27.3 | 29.6 | 29.9 | 28.59 | 28.0 | 28.4 | 0.6 | 1.0 | 0.0 | 0.29 | 0.29 | 1.6 | 2.0 | 1.1 | 0.1 | 0.4 | 2.7 | 3.1 | 2.2 | 1.1 | 1.4 | 3.7 | 4.1 | 3.2 | 2.2 | 2.4 | | | | | | | | | |
| 23 | 7 | 29.0 | 27.59 | 8 | 2 | 7 | ☿ | 29 | 0 | 27.8 | 2 | 7 | 1 | 0 | 0 | 28.9 | 3 | 8 | 2 | 1 | 0 | 0 | 3 | 8 | 2 | 2 | 1 | 0 | 3 | 8 | 2 | 3 | 1 | 0 | 3 | | | | |
| 24 | 9 | 2 | 28 | 0 | 6 | 1 | 9 | 2 | 29 | 0 | 7 | 1 | 9 | 3 | 0 | 0 | 7 | 1 | 9 | 3 | 1 | 0 | 29.8 | 1 | 9 | 4 | 2 | 0 | 0.8 | 1 | 4.0 | 4 | 2 | 59 | 1.8 | 1 | | | |
| 25 | 29.0 | 4 | 28 | 1 | 5 | 26.9 | ☿ | 4 | 29 | 1 | 6 | 0 | 1.0 | 4 | 0 | 0 | 6 | 0 | 2.0 | 4 | 0 | 59 | 6 | 0 | 3.1 | 5 | 1 | 59 | 6 | 0 | 1 | 5 | 2 | 58 | 7 | 0 | | | |
| 26 | 2 | 5 | 28 | 2 | 26.4 | 8 | 0.2 | 5 | 29 | 1 | 4 | 27.8 | 2 | 1.6 | 0 | 0 | 4 | 28.8 | 2 | 2.6 | 0 | 59 | 5 | 29.8 | 2 | 3.6 | 1 | 58 | 5 | 0.8 | 2 | 4.6 | 2 | 57 | 5 | 1.8 | | | |
| 27 | 3 | 7 | 28 | 3 | 2 | 7 | 3 | 7 | 29 | 1 | 27.3 | 7 | 3 | 7 | 0 | 0 | 28.3 | 7 | 3 | 7 | 0 | 59 | 3 | 7 | 3 | 8 | 1 | 57 | 3 | 7 | 4 | 8 | 2 | 55 | 3 | 7 | | | |
| 28 | 5 | 8 | 28 | 4 | 1 | 5 | 4 | 8 | 29 | 2 | 1 | 5 | 4 | 9 | 0 | 0 | 1 | 6 | 5 | 9 | 0 | 58 | 2 | 6 | 5 | 9 | 1 | 56 | 2 | 5 | 4.5 | 9 | 2 | 54 | 2 | 5 | | | |
| 29 | 29.6 | ☿ | 28 | 5 | 25.9 | 26.4 | 0.6 | 1.0 | 29 | 2 | 0 | 4 | 1.6 | 2.0 | 0 | 0 | 0 | 4 | 2.6 | 3.0 | 0 | 58 | 0 | 4 | 3.6 | 4.1 | 1 | 55 | 0 | 4 | 6 | 5.1 | 2 | 53 | 0 | 4 | | | |
| 30 | 8 | 0.2 | 28 | 6 | 8 | 2 | 7 | 1 | 29 | 3 | 26.8 | 2 | 8 | 2 | 0 | 0 | 27.8 | 2 | 8 | 2 | 0 | 57 | 28.9 | 3 | 8 | 2 | 1 | 54 | 29.8 | 2 | 8 | 2 | 2 | 51 | 0.8 | 2 | | | |
| 31 | 9 | 3 | 28 | 7 | 7 | 1 | 9 | 3 | 29 | 3 | 7 | 1 | 9 | 4 | 0 | 0 | 6 | 1 | 9 | 3 | 0 | 57 | 7 | 1 | 9 | 3 | 1 | 53 | 7 | 1 | 9 | 3 | 2 | 50 | 7 | 1 | | | |
| 32 | ☿ | 0.1 | 5 | 28 | 8 | 5 | 25.9 | 1.1 | 5 | 29 | 4 | 5 | 26.9 | 2.1 | 5 | 0 | 0 | 5 | 27.9 | 3.1 | 5 | 0 | 56 | 5 | 28.9 | 4.1 | 5 | 1 | 52 | 5 | 29.9 | 5.1 | 5 | 2 | 48 | 5 | 0.9 | | |
| 33 | 2 | 7 | 28 | 9 | 25.4 | 8 | 2 | 7 | 29 | 4 | 3 | 8 | 2 | 7 | 0 | 0 | 3 | 8 | 2 | 7 | 0 | 56 | 3 | 8 | 2 | 4.6 | 1 | 51 | 3 | 8 | 2 | 5.6 | 2 | 47 | 3 | 8 | | | |
| 34 | 4 | 8 | 28 | 10 | 2 | 6 | 4 | 8 | 29 | 5 | 2 | 6 | 4 | 9 | 0 | 0 | 1 | 6 | 4 | 8 | 0 | 55 | 2 | 6 | 4 | 8 | 1 | 50 | 2 | 6 | 4 | 7 | 2 | 46 | 1 | 6 | | | |
| 35 | 6 | 1.0 | 28 | 11 | 1 | 4 | 6 | 2.0 | 29 | 5 | 0 | 4 | 5 | 3.0 | 0 | 0 | 0 | 5 | 6 | 4.0 | 0 | 55 | 0 | 4 | 6 | 9 | 1 | 49 | 0 | 4 | 5 | 9 | 2 | 44 | 29.9 | 4 | | | |
| 36 | 8 | 2 | 28 | 11 | 24.9 | 3 | 7 | 2 | 29 | 6 | 25.9 | 3 | 7 | 2 | 0 | 0 | 26.8 | 3 | 7 | 1 | 0 | 54 | 27.8 | 3 | 7 | 5.1 | 1 | 49 | 28.8 | 2 | 7 | 6.0 | 2 | 43 | 7 | 2 | | | |
| 37 | 9 | 4 | 28 | 12 | 7 | 1 | 9 | 3 | 29 | 6 | 8 | 1 | 9 | 4 | 0 | 0 | 6 | 1 | 9 | 2 | 0 | 54 | 7 | 1 | 9 | 3 | 1 | 48 | 6 | 1 | 9 | 1 | 2 | 41 | 6 | 1 | | | |
| 38 | 1.1 | 5 | 28 | 13 | 6 | 24.9 | 2.1 | 5 | 29 | 7 | 6 | 25.9 | 3.1 | 5 | 0 | 0 | 5 | 26.9 | 4.1 | 4 | 0 | 53 | 5 | 27.9 | 5.1 | 4 | 1 | 47 | 5 | 28.9 | 6.1 | 2 | 2 | 40 | 4 | 29.9 | | | |
| 39 | 3 | 7 | 28 | 14 | 4 | 7 | 3 | 7 | 29 | 7 | 5 | 7 | 3 | 7 | 0 | 0 | 3 | 7 | 3 | 4.5 | 0 | 53 | 3 | 7 | 3 | 6 | 1 | 46 | 3 | 7 | 2 | 4 | 2 | 38 | 2 | 7 | | | |
| 40 | 5 | 9 | 28 | 15 | 2 | 6 | 5 | 9 | 29 | 8 | 25.3 | 6 | 5 | 8 | 0 | 0 | 2 | 5 | 4 | 7 | 0 | 52 | 1 | 5 | 4 | 8 | 1 | 45 | 1 | 5 | 4 | 6.6 | 2 | 37 | 0 | 5 | | | |
| 41 | 7 | 2.1 | 28 | 16 | 1 | 4 | 7 | 3.1 | 29 | 8 | 1 | 4 | 7 | 4.0 | 0 | 0 | 0 | 3 | 6 | 9 | 0 | 52 | 26.9 | 3 | 6 | 9 | 1 | 44 | 27.9 | 3 | 6 | 7 | 2 | 35 | 28.8 | 3 | | | |
| 42 | 9 | 3 | 28 | 17 | 23.9 | 2 | 9 | 3 | 29 | 9 | 0 | 2 | 9 | 2 | 0 | 0 | 25.8 | 1 | 8 | 5.0 | 0 | 51 | 7 | 1 | 8 | 6.1 | 1 | 43 | 7 | 1 | 8 | 9 | 2 | 34 | 6 | 1 | | | |
| 43 | 2.1 | 5 | 28 | 18 | 7 | 0 | 3.1 | 5 | 29 | 9 | 24.8 | 24.9 | 4.1 | 4 | 0 | 0 | 6 | 25.9 | 5.1 | 2 | 0 | 51 | 5 | 26.9 | 6.0 | 3 | 1 | 42 | 5 | 27.9 | 7.0 | 7.1 | 2 | 32 | 3 | 28.8 | | | |
| 44 | 3 | 7 | 28 | 19 | 6 | 23.8 | 3 | 7 | 29 | 10 | 6 | 7 | 3 | 5 | 0 | 0 | 5 | 7 | 3 | 4 | 0 | 50 | 3 | 7 | 2 | 4 | 1 | 41 | 3 | 7 | 2 | 2 | 2 | 31 | 1 | 6 | | | |
| 45 | 5 | 9 | 28 | 20 | 4 | 6 | 6 | 9 | 29 | 10 | 4 | 5 | 5 | 7 | 0 | 0 | 3 | 5 | 5 | 6 | 0 | 50 | 1 | 4 | 4 | 6 | 1 | 40 | 1 | 5 | 4 | 4 | 2 | 29 | 27.9 | 4 | | | |
| 46 | 7 | 3.1 | 28 | 21 | 3 | 4 | 8 | 4.1 | 29 | 11 | 2 | 3 | 7 | 9 | 0 | 0 | 1 | 3 | 7 | 8 | 0 | 49 | 25.9 | 2 | 6 | 7 | 1 | 39 | 26.9 | 3 | 6 | 6 | 2 | 28 | 7 | 2 | | | |
| 47 | 9 | 4 | 28 | 22 | 1 | 2 | 4.0 | 3 | 29 | 11 | 23.9 | 1 | 9 | 5.1 | 0 | 0 | 24.9 | 1 | 9 | 6.1 | 0 | 49 | 7 | 0 | 8 | 9 | 1 | 38 | 6 | 1 | 8 | 8 | 2 | 26 | 5 | 0 | | | |
| 48 | 3.2 | 6 | 28 | 24 | 22.9 | 0 | 2 | 5 | 29 | 12 | 7 | 23.9 | 5.1 | 3 | 0 | 0 | 7 | 24.9 | 6.1 | 3 | 0 | 48 | 5 | 25.8 | 7.0 | 7.1 | 1 | 36 | 4 | 26.8 | 8.0 | 8.0 | 2 | 25 | 3 | 27.8 | | | |
| 49 | 4 | 8 | 28 | 25 | 7 | 22.8 | 5 | 7 | 29 | 12 | 5 | 7 | 3 | 6 | 0 | 0 | 4 | 7 | 3 | 5 | 0 | 48 | 3 | 5 | 2 | 3 | 1 | 35 | 2 | 6 | 2 | 2 | 2 | 23 | 1 | 5 | | | |
| 50 | 7 | 4.1 | 28 | 26 | 5 | 5 | 7 | 9 | 29 | 13 | 3 | 4 | 6 | 8 | 0 | 0 | 2 | 4 | 6 | 7 | 0 | 47 | 1 | 3 | 5 | 5 | 1 | 34 | 25.9 | 3 | 5 | 4 | 2 | 21 | 26.8 | 2 | | | |
| 51 | 4.0 | 3 | 28 | 27 | 3 | 2 | 5.0 | 5.1 | 29 | 13 | 1 | 2 | 9 | 6.0 | 0 | 0 | 0 | 1 | 8 | 9 | 0 | 47 | 24.9 | 0 | 8 | 7 | 1 | 33 | 7 | 0 | 7 | 6 | 2 | 20 | 5 | 26.9 | | | |
| 52 | 3 | 5 | 28 | 28 | 1 | 21.9 | 3 | 3 | 29 | 14 | 22.9 | 22.9 | 6.2 | 2 | 0 | 0 | 23.8 | 23.8 | 7.1 | 7.1 | 0 | 46 | 7 | 24.7 | 8.1 | 9 | 1 | 32 | 5 | 25.7 | 9.0 | 8 | 2 | 18 | 3 | 6 | | | |
| 53 | 6 | 7 | 28 | 29 | 21.9 | 6 | 6 | 5 | 29 | 15 | 7 | 6 | 5 | 4 | 0 | 0 | 6 | 5 | 4 | 3 | 0 | 45 | 5 | 4 | 4 | 8.1 | 1 | 31 | 3 | 4 | 3 | 9.0 | 2 | 16 | 1 | 3 | | | |
| 54 | 9 | 5.0 | 28 | 31 | 7 | 3 | 9 | 8 | 29 | 15 | 5 | 3 | 8 | 7 | 0 | 0 | 3 | 2 | 7 | 5 | 0 | 45 | 2 | 1 | 7 | 3 | 1 | 29 | 0 | 1 | 6 | 2 | 2 | 14 | 25.8 | 0 | | | |
| 55 | 5.2 | 3 | 28 | 32 | 4 | 0 | 6.2 | 6.1 | 29 | 16 | 2 | 0 | 7.1 | 7.0 | 0 | 0 | 0 | 22.9 | 8.0 | 8 | 0 | 44 | 23.9 | 23.8 | 9.0 | 6 | 1 | 28 | 24.7 | 24.8 | 9 | 4 | 2 | 12 | 5 | 25.7 | | | |
| 56 | 6 | 6 | 28 | 33 | 1 | 20.7 | 5 | 3 | 29 | 16 | 0 | 21.7 | 4 | 2 | 0 | 0 | 22.8 | 6 | 3 | 8.0 | 0 | 44 | 7 | 5 | 3 | 9 | 1 | 27 | 4 | 4 | 10.2 | 5 | 2 | 10 | 2 | 3 | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

19

| H. M. S. SID. T. 6 17 26 } $\overline{50}$ ARC 94° 21' 5 } 4° | | | | | | H. M. S. 6 21 47 } $\overline{50}$ 5° 95° 26' 9 } $\overline{50}$ | | | | | | H. M. S. 6 26 9 } $\overline{50}$ 6° 96° 32' 2 } $\overline{50}$ | | | | | | H. M. S. 6 30 30 } $\overline{50}$ 7° 97° 37' 4 } $\overline{50}$ | | | | | | H. M. S. 6 34 50 } $\overline{50}$ 8° 98° 42' 6 } $\overline{50}$ | | | | | | H. M. S. 6 39 11 } $\overline{50}$ 9° 99° 47' 7 } $\overline{50}$ | | | | | |
|---|------|------|------------------------|---------------------|------|---|------|------------------------|---------------------|------|------|--|------------------------|---------------------|------|------|------------------------|---|-----|------|------------------------|---------------------|------|---|------|------|------|------|-----|---|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | Q | W | A | M | I | Q | W | A | M | I | Q | W | A | M | I | Q | W | A | M | I | Q | W | A | M | I | Q | W | A | M | I | Q | W | A | M | I |
| 22 | 4.7 | 5.2 | 4 3 | 3.2 | 3.4 | 5.7 | 6.2 | 5 3 | 4.2 | 4.4 | 6.8 | 7.2 | 6 4 | 5.2 | 5.4 | 7.8 | 8.3 | 7 4 | 6.2 | 6.4 | 8.8 | 9.2 | 8 5 | 7.2 | 7.4 | 9.8 | 10.2 | 9 5 | 8.2 | 8.4 | | | | | |
| 23 | 8 | 3 | 4 1 | 0 | 3 | 9 | 3 | 5 1 | 0 | 3 | 9 | 4 | 6 1 | 0 | 3 | 9 | 4 | 7 1 | 0 | 3 | 9 | 3 | 8 1 | 1 | 3 | 10.0 | 4 | 9 1 | 0 | 3 | | | | | |
| 24 | 5.0 | 4 | 3 59 | 2.8 | 1 | 6.0 | 4 | 4 59 | 3.9 | 1 | 7.0 | 5 | 5 58 | 4.8 | 2 | 8.0 | 5 | 6 58 | 5.9 | 1 | 9.1 | 4 | 7 58 | 6.9 | 1 | 1 | 5 | 8 57 | 7.8 | 1 | | | | | |
| 25 | 1 | 5 | 3 57 | 7 | 0 | 1 | 5 | 4 57 | 7 | 0 | 1 | 6 | 5 56 | 7 | 0 | 2 | 6 | 6 55 | 7 | 0 | 2 | 5 | 7 54 | 7 | 0 | 2 | 6 | 8 53 | 7 | 0 | | | | | |
| 26 | 2 | 5.7 | 3 56 | 5 | 2.8 | 2 | 6.7 | 4 54 | 5 | 3.8 | 3 | 7 | 5 53 | 5 | 4.9 | 3 | 7 | 6 51 | 5 | 5.8 | 3 | 9.7 | 7 50 | 5 | 6.8 | 3 | 10.7 | 8 48 | 5 | 7.8 | | | | | |
| 27 | 4 | 8 | 3 54 | 3 | 7 | 4 | 8 | 4 52 | 3 | 7 | 4 | 8 | 5 50 | 3 | 7 | 4 | 8 | 6 48 | 3 | 7 | 4 | 8 | 7 47 | 3 | 7 | 10.4 | 8 | 8 44 | 3 | 7 | | | | | |
| 28 | 5.5 | 9 | 3 52 | 1 | 5 | 6.5 | 9 | 4 50 | 1 | 5 | 7.5 | 8.0 | 5 47 | 1 | 6 | 8.5 | 9.0 | 6 45 | 1 | 5 | 9.6 | 9 | 7 43 | 1 | 5 | 6 | 9 | 8 40 | 1 | 5 | | | | | |
| 29 | 6 | 6.1 | 3 50 | 0 | 4 | 7 | 7.1 | 4 47 | 0 | 4 | 7 | 1 | 5 45 | 3.9 | 4 | 7 | 1 | 6 42 | 4.9 | 4 | 7 | 10.0 | 7 39 | 5.9 | 4 | 7 | 11.0 | 8 36 | 6.9 | 4 | | | | | |
| 30 | 8 | 2 | 3 48 | 1.8 | 2 | 8 | 2 | 4 45 | 2.8 | 2 | 8 | 2 | 5 42 | 8 | 2 | 8 | 2 | 6 39 | 8 | 2 | 8 | 1 | 7 35 | 7 | 2 | 8 | 1 | 8 32 | 7 | 2 | | | | | |
| 31 | 9 | 3 | 3 46 | 6 | 1 | 9 | 3 | 4 43 | 6 | 1 | 9 | 3 | 5 39 | 6 | 1 | 9.0 | 3 | 6 35 | 6 | 1 | 10.0 | 3 | 7 32 | 5 | 1 | 11.0 | 3 | 8 28 | 5 | 0 | | | | | |
| 32 | 6.1 | 5 | 3 44 | 4 | 1.9 | 7.1 | 5 | 4 40 | 4 | 2.9 | 8.1 | 8.4 | 5 36 | 4 | 3.9 | 1 | 4 | 6 32 | 4 | 4.9 | 1 | 4 | 7 28 | 3 | 5.9 | 1 | 4 | 8 24 | 3 | 6.9 | | | | | |
| 33 | 2 | 6.6 | 3 43 | 3 | 7 | 2 | 7.6 | 4 38 | 2 | 7 | 2 | 6 | 5 33 | 2 | 7 | 2 | 9.6 | 6 29 | 2 | 7 | 2 | 10.5 | 7 24 | 1 | 7 | 2 | 11.5 | 8 20 | 1 | 7 | | | | | |
| 34 | 4 | 8 | 3 41 | 1 | 6 | 4 | 7 | 4 36 | 0 | 6 | 4 | 7 | 5 31 | 0 | 6 | 4 | 7 | 6 26 | 0 | 6 | 4 | 6 | 7 21 | 4.9 | 5 | 4 | 6 | 8 15 | 5.9 | 5 | | | | | |
| 35 | 5 | 9 | 3 39 | 0.9 | 4 | 5 | 9 | 4 33 | 1.9 | 4 | 5 | 8 | 5 28 | 2.8 | 4 | 9.5 | 8 | 6 22 | 3.8 | 4 | 10.5 | 7 | 7 17 | 7 | 4 | 11.5 | 7 | 8 11 | 7 | 3 | | | | | |
| 36 | 7 | 7.0 | 3 37 | 7 | 2 | 7 | 8.0 | 4 31 | 7 | 2 | 7 | 9.0 | 5 25 | 6 | 2 | 7 | 9 | 6 19 | 6 | 2 | 7 | 9 | 7 13 | 5 | 2 | 7 | 8 | 8 7 | 5 | 2 | | | | | |
| 37 | 9 | 2 | 3 35 | 5 | 0 | 9 | 1 | 4 29 | 5 | 0 | 9 | 1 | 5 22 | 4 | 0 | 9 | 10.1 | 6 16 | 3 | 0 | 9 | 11.0 | 7 9 | 3 | 0 | 9 | 12.0 | 8 3 | 3 | 0 | | | | | |
| 38 | 7.0 | 3 | 3 33 | 3 | 0.8 | 8.0 | 3 | 4 26 | 3 | 1.8 | 9.0 | 2 | 5 19 | 2 | 2.8 | 10.0 | 2 | 6 12 | 1 | 3.8 | 11.0 | 1 | 7 5 | 1 | 4.8 | 12.0 | 1 | 7 58 | 1 | 5.8 | | | | | |
| 39 | 2 | 5 | 3 31 | 1 | 7 | 2 | 4 | 4 24 | 1 | 6 | 2 | 3 | 5 16 | 0 | 6 | 2 | 3 | 6 9 | 2.9 | 6 | 2 | 2 | 7 1 | 3.9 | 6 | 2 | 2 | 7 54 | 4.9 | 6 | | | | | |
| 40 | 4 | 6 | 3 29 $\overline{29.9}$ | 5 | 4 | 8.6 | 4 21 | 0.9 | 4 | 4 | 9.4 | 5 13 | 1.8 | 4 | 4 | 4 | 5 | 6 6 | 7 | 4 | 4 | 3 | 6 58 | 7 | 4 | 3 | 3 | 7 50 | 6 | 4 | | | | | |
| 41 | 6 | 8 | 3 27 | 7 | 2 | 6 | 7 | 4 19 | 7 | 2 | 6 | 5 | 5 10 | 5 | 2 | 6 | 10.6 | 6 2 | 5 | 2 | 5 | 11.4 | 6 54 | 5 | 2 | 5 | 12.4 | 7 45 | 4 | 1 | | | | | |
| 42 | 8 | 8.0 | 3 25 | 5 | 0 | 8 | 9 | 4 16 | 5 | 0 | 8 | 7 | 5 7 | 3 | 0 | 7 | 7 | 5 59 | 3 | 2.9 | 7 | 5 | 6 50 | 2 | 3.9 | 7 | 6 | 7 41 | 1 | 4.9 | | | | | |
| 43 | 8.0 | 1 | 3 23 | 2 $\overline{29.8}$ | 9.0 | 9.0 | 4 14 | 3 | 0.8 | 10.0 | 8 | 5 4 | 1 | 1.8 | 9 | 9 | 5 55 | 1 | 7 | 9 | 7 | 6 46 | 0 | 7 | 9 | 7 | 7 36 | 3.9 | 7 | | | | | | |
| 44 | 2 | 3 | 3 21 | 0 | 6 | 2 | 2 | 4 11 | 1 | 5 | 2 | 10.0 | 5 1 | 0.8 | 6 | 11.1 | 11.0 | 5 51 | 1.8 | 5 | 12.1 | 8 | 6 41 | 2.7 | 4 | 13.1 | 8 | 7 31 | 6 | 4 | | | | | |
| 45 | 4 | 5 | 3 19 $\overline{28.8}$ | 4 | 4 | 4 | 4 | 9 $\overline{29.9}$ | 3 | 4 | 4 | 2 | 4 58 | 6 | 4 | 3 | 2 | 5 48 | 6 | 2 | 2 | 12.0 | 6 37 | 5 | 2 | 2 | 13.0 | 7 27 | 4 | 1 | | | | | |
| 46 | 6 | 8.6 | 3 17 | 6 | 2 | 6 | 5 | 4 6 | 6 | 1 | 5 | 3 | 4 55 | 4 | 2 | 5 | 3 | 5 44 | 3 | 0 | 4 | 2 | 6 33 | 3 | 0 | 4 | 1 | 7 22 | 1 | 3.9 | | | | | |
| 47 | 8 | 7 | 3 15 | 4 | 0 | 8 | 7 | 4 3 | 4 $\overline{29.9}$ | 7 | 7 | 5 | 4 52 | 2 | 0 | 7 | 5 | 5 40 | 1 | 1.8 | 6 | 4 | 6 29 | 0 | 2.8 | 6 | 3 | 7 17 | 2.8 | 7 | | | | | |
| 48 | 9.0 | 9 | 3 13 | 2 $\overline{28.8}$ | 10.0 | 9 | 4 1 | 1 | 7 | 9 | 7 | 4 49 $\overline{29.9}$ | 0.7 | 9 | 11.7 | 5 37 | 0.9 | 6 | 9 | 5 | 6 25 | 1.8 | 6 | 8 | 4 | 7 12 | 5 | 5 | | | | | | | |
| 49 | 2 | 9.1 | 3 10 $\overline{27.9}$ | 5 | 2 | 10.1 | 3 58 | 28.9 | 4 | 11.1 | 8 | 4 45 | 7 | 4 | 12.1 | 8 | 5 33 | 6 | 3 | 13.1 | 7 | 6 20 | 5 | 3 | 14.0 | 13.6 | 7 7 | 3 | 2 | | | | | | |
| 50 | 4 | 3 | 3 8 | 7 | 2 | 4 | 2 | 3 55 | 6 | 1 | 4 | 11.0 | 4 42 | 4 | 1 | 3 | 9 | 5 29 | 3 | 0 | 3 | 8 | 6 16 | 2 | 0 | 2 | 7 | 7 2 | 0 | 2.9 | | | | | |
| 51 | 7 | 5 | 3 6 | 4 $\overline{27.9}$ | 6 | 6 | 3 | 3 52 | 4 $\overline{28.8}$ | 6 | 6 | 2 | 4 39 | 1 $\overline{29.8}$ | 5 | 12.0 | 5 25 | 1 | 0.7 | 5 | 13.0 | 6 11 | 0.9 | 1.7 | 4 | 8 | 6 57 | 1.7 | 6 | | | | | | |
| 52 | 9 | 7 | 3 4 | 2 | 6 | 9 | 5 | 3 49 | 1 | 5 | 8 | 4 | 4 35 $\overline{28.9}$ | 5 | 7 | 2 | 5 21 $\overline{29.8}$ | 4 | 7 | 1 | 6 6 | 6 | 4 | 6 | 9 | 6 52 | 4 | 3 | | | | | | | |
| 53 | 10.2 | 9 | 3 1 | 0 | 3 | 11.2 | 7 | 3 46 $\overline{27.8}$ | 2 | 12.1 | 6 | 4 31 | 6 | 2 | 13.0 | 4 | 5 17 | 5 | 1 | 9 | 2 | 6 2 | 3 | 1 | 9 | 14.1 | 6 47 | 1 | 0 | | | | | | |
| 54 | 5 | 10.1 | 2 59 $\overline{26.7}$ | 0 | 5 | 9 | 3 43 | 5 $\overline{27.9}$ | 4 | 8 | 4 | 8 4 28 | 3 $\overline{28.9}$ | 3 | 6 | 5 12 | 2 $\overline{29.8}$ | 14.2 | 4 | 5 57 | 0 | 0.7 | 15.2 | 3 | 6 41 | 0.8 | 1.6 | | | | | | | | |
| 55 | 8 | 3 | 2 56 | 4 $\overline{26.6}$ | 8 | 11.1 | 3 40 | 2 | 5 | 7 | 12.0 | 4 24 | 0 | 5 | 6 | 5 | 5 52 $\overline{28.9}$ | 4 | 5 | 6 | 5 52 $\overline{29.7}$ | 3 | 5 | 6 | 5 52 | 5 | 6 | | | | | | | | |
| 56 | 11.1 | 5 | 2 54 | 1 | 2 | 12.1 | 3 | 3 37 $\overline{26.9}$ | 1 | 13.0 | 2 | 4 20 $\overline{27.7}$ | 1 | 9 | 13.0 | 5 3 | 6 | 0 | 8 | 5 | 5 47 | 3 $\overline{29.9}$ | 8 | 7 | 6 50 | 1 | 6 | | | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 6 39 11 } ϖ ARC 99° 47'.7 } 9° | | | | | | H. M. S. 6 43 31 } ϖ 10° 100° 52'.8 } 10° | | | | | | H. M. S. 6 47 51 } ϖ 11° 101° 57'.8 } 11° | | | | | | H. M. S. 6 52 11 } ϖ 12° 103° 2'.7 } 12° | | | | | | H. M. S. 6 56 30 } ϖ 13° 104° 7'.5 } 13° | | | | | | H. M. S. 7 0 49 } ϖ 14° 105° 12'.3 } 14° | | | | | | |
|--|------|------|---|----|-----|--|------|------|----|----|-----|--|------|------|----|----|------|---|------|------|----|----|------|---|------|------|----|----|------|---|------|------|----|----|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | Q | W | A | M | J | Q | W | A | M | J | Q | W | A | M | J | Q | W | A | M | J | Q | W | A | M | J | Q | W | A | M | J | Q | W | A | M | J | |
| 22 | 9.8 | 10.2 | 9 | 5 | 8.2 | 8.4 | 10.9 | 11.3 | 10 | 5 | 9.2 | 9.4 | 11.9 | 12.3 | 11 | 5 | 10.2 | 10.4 | 12.9 | 13.4 | 12 | 5 | 11.2 | 11.4 | 14.0 | 14.4 | 13 | 5 | 12.2 | 12.4 | 15.0 | 15.5 | 14 | 4 | 13.2 | 13.4 |
| 23 | 10.0 | 4 | 9 | 1 | 0 | 3 | 11.0 | 4 | 10 | 0 | 0 | 3 | 12.0 | 4 | 11 | 0 | 0 | 3 | 13.0 | 5 | 11 | 59 | 0 | 3 | 1 | 5 | 12 | 59 | 0 | 3 | 1 | 6 | 13 | 58 | 0 | 2 |
| 24 | 1 | 5 | 8 | 57 | 7.8 | 1 | 1 | 5 | 9 | 56 | 8.9 | 1 | 1 | 5 | 10 | 55 | 9.8 | 1 | 2 | 6 | 11 | 54 | 10.8 | 1 | 2 | 6 | 12 | 53 | 11.8 | 1 | 2 | 7 | 13 | 52 | 12.8 | 1 |
| 25 | 2 | 6 | 8 | 53 | 7 | 0 | 2 | 6 | 9 | 51 | 7 | 0 | 3 | 6 | 10 | 50 | 6 | 0 | 3 | 7 | 11 | 49 | 6 | 0 | 3 | 7 | 12 | 47 | 6 | 0 | 3 | 8 | 13 | 46 | 6 | 12.9 |
| 26 | 3 | 10.7 | 8 | 48 | 5 | 7.8 | 4 | 11.7 | 9 | 47 | 5 | 8.8 | 4 | 7 | 10 | 45 | 4 | 9.8 | 4 | 8 | 11 | 43 | 4 | 10.8 | 4 | 8 | 12 | 41 | 4 | 11.8 | 5 | 9 | 13 | 39 | 4 | 8 |
| 27 | 10.4 | 8 | 8 | 44 | 3 | 7 | 11.5 | 8 | 9 | 42 | 3 | 7 | 12.5 | 9 | 10 | 40 | 2 | 7 | 13.5 | 9 | 11 | 38 | 2 | 7 | 14.5 | 9 | 12 | 36 | 2 | 6 | 15.6 | 9 | 13 | 33 | 2 | 6 |
| 28 | 6 | 9 | 8 | 40 | 1 | 5 | 6 | 9 | 9 | 38 | 1 | 5 | 6 | 13.0 | 10 | 35 | 0 | 5 | 6 | 14.0 | 11 | 33 | 0 | 5 | 7 | 15.0 | 12 | 30 | 0 | 5 | 7 | 16.0 | 13 | 27 | 0 | 5 |
| 29 | 7 | 11.0 | 8 | 36 | 6.9 | 4 | 7 | 12.0 | 9 | 33 | 7.9 | 4 | 7 | 1 | 10 | 30 | 8.8 | 3 | 8 | 1 | 11 | 27 | 9.8 | 3 | 8 | 1 | 12 | 24 | 10.8 | 3 | 8 | 1 | 13 | 21 | 11.8 | 12.3 |
| 30 | 8 | 1 | 8 | 32 | 7 | 2 | 9 | 2 | 9 | 29 | 7 | 2 | 9 | 2 | 10 | 25 | 6 | 2 | 9 | 2 | 11 | 22 | 6 | 2 | 9 | 2 | 12 | 18 | 6 | 2 | 9 | 2 | 13 | 14 | 5 | 1 |
| 31 | 11.0 | 3 | 8 | 28 | 5 | 0 | 12.0 | 3 | 9 | 24 | 5 | 0 | 13.0 | 3 | 10 | 20 | 4 | 0 | 14.0 | 3 | 11 | 16 | 4 | 0 | 15.0 | 3 | 12 | 12 | 4 | 0 | 16.0 | 3 | 13 | 8 | 3 | 0 |
| 32 | 1 | 4 | 8 | 24 | 3 | 6.9 | 1 | 4 | 9 | 19 | 2 | 7.9 | 1 | 4 | 10 | 15 | 2 | 8.8 | 1 | 14.4 | 11 | 11 | 2 | 9.8 | 2 | 15.4 | 12 | 6 | 1 | 10.8 | 2 | 16.4 | 13 | 1 | 1 | 11.8 |
| 33 | 2 | 11.5 | 8 | 20 | 1 | 7 | 3 | 5 | 9 | 15 | 0 | 7 | 3 | 13.5 | 10 | 10 | 0 | 7 | 3 | 5 | 11 | 5 | 0 | 7 | 3 | 5 | 12 | 0 | 9.9 | 6 | 3 | 5 | 12 | 55 | 10.9 | 6 |
| 34 | 4 | 6 | 8 | 15 | 5.9 | 5 | 4 | 12.6 | 9 | 10 | 6.8 | 5 | 4 | 6 | 10 | 5 | 7.8 | 5 | 4 | 6 | 11 | 0 | 8.7 | 5 | 4 | 6 | 11 | 54 | 7 | 5 | 4 | 5 | 12 | 49 | 6 | 4 |
| 35 | 11.5 | 7 | 8 | 11 | 7 | 3 | 12.6 | 7 | 9 | 5 | 6 | 3 | 13.6 | 7 | 10 | 0 | 6 | 3 | 14.6 | 7 | 10 | 54 | 5 | 3 | 15.6 | 7 | 11 | 48 | 5 | 3 | 16.6 | 6 | 12 | 42 | 4 | 2 |
| 36 | 7 | 8 | 8 | 7 | 5 | 2 | 7 | 8 | 9 | 1 | 5 | 1 | 7 | 8 | 9 | 55 | 4 | 1 | 7 | 14.7 | 10 | 48 | 3 | 1 | 7 | 15.7 | 11 | 42 | 3 | 1 | 7 | 16.7 | 12 | 35 | 2 | 1 |
| 37 | 9 | 12.0 | 8 | 3 | 3 | 0 | 9 | 9 | 8 | 56 | 3 | 6.9 | 9 | 9 | 9 | 49 | 2 | 7.9 | 9 | 8 | 10 | 43 | 1 | 8.9 | 9 | 8 | 11 | 36 | 1 | 9.9 | 8 | 7 | 12 | 29 | 0 | 10.9 |
| 38 | 12.0 | 1 | 7 | 58 | 1 | 5.8 | 13.0 | 13.0 | 8 | 51 | 0 | 7 | 14.0 | 14.0 | 9 | 44 | 0 | 7 | 15.0 | 9 | 10 | 37 | 7.9 | 7 | 16.0 | 9 | 11 | 30 | 8.8 | 7 | 17.0 | 8 | 12 | 22 | 9.7 | 6 |
| 39 | 2 | 2 | 7 | 54 | 4.9 | 6 | 2 | 1 | 8 | 46 | 5.8 | 5 | 2 | 1 | 9 | 39 | 6.7 | 5 | 2 | 15.0 | 10 | 31 | 6 | 5 | 1 | 16.0 | 11 | 23 | 6 | 4 | 1 | 9 | 12 | 15 | 5 | 4 |
| 40 | 3 | 3 | 7 | 50 | 6 | 4 | 3 | 2 | 8 | 41 | 5 | 3 | 3 | 2 | 9 | 33 | 5 | 3 | 3 | 1 | 10 | 25 | 4 | 3 | 3 | 1 | 11 | 17 | 3 | 2 | 3 | 17.0 | 12 | 8 | 2 | 2 |
| 41 | 5 | 12.4 | 7 | 45 | 4 | 1 | 5 | 3 | 8 | 37 | 3 | 1 | 5 | 3 | 9 | 28 | 2 | 1 | 5 | 2 | 10 | 19 | 1 | 0 | 5 | 2 | 11 | 10 | 0 | 0 | 5 | 1 | 12 | 2 | 8.9 | 0 |
| 42 | 7 | 6 | 7 | 41 | 1 | 4.9 | 7 | 13.4 | 8 | 32 | 0 | 5.9 | 7 | 4 | 9 | 22 | 0 | 6.8 | 7 | 3 | 10 | 13 | 6.9 | 7.8 | 6 | 3 | 11 | 4 | 7.8 | 8.8 | 6 | 1 | 11 | 55 | 7 | 9.7 |
| 43 | 9 | 7 | 7 | 36 | 3.9 | 7 | 9 | 5 | 8 | 26 | 4.8 | 6 | 9 | 14.6 | 9 | 17 | 5.7 | 6 | 8 | 15.4 | 10 | 7 | 6 | 5 | 8 | 4 | 10 | 57 | 5 | 5 | 8 | 2 | 11 | 47 | 4 | 5 |
| 44 | 13.1 | 8 | 7 | 31 | 6 | 4 | 14.1 | 7 | 8 | 21 | 5 | 4 | 15.0 | 7 | 9 | 11 | 4 | 3 | 16.0 | 5 | 10 | 1 | 3 | 3 | 17.0 | 16.5 | 10 | 51 | 2 | 2 | 18.0 | 3 | 11 | 40 | 1 | 2 |
| 45 | 2 | 13.0 | 7 | 27 | 4 | 1 | 2 | 8 | 8 | 16 | 3 | 1 | 1 | 8 | 9 | 5 | 1 | 1 | 1 | 6 | 9 | 55 | 0 | 0 | 1 | 6 | 10 | 44 | 6.9 | 0 | 1 | 17.4 | 11 | 33 | 7.8 | 8.9 |
| 46 | 4 | 1 | 7 | 22 | 1 | 3.9 | 4 | 9 | 8 | 11 | 0 | 4.9 | 3 | 9 | 9 | 0 | 4.9 | 5.9 | 3 | 8 | 9 | 48 | 5.8 | 6.8 | 3 | 7 | 10 | 37 | 7 | 7.7 | 2 | 5 | 11 | 26 | 6 | 7 |
| 47 | 6 | 3 | 7 | 17 | 2.8 | 7 | 6 | 14.1 | 8 | 5 | 3.8 | 7 | 5 | 15.0 | 8 | 54 | 7 | 7 | 5 | 16.0 | 9 | 42 | 6 | 6 | 5 | 8 | 10 | 30 | 4 | 5 | 4 | 7 | 11 | 18 | 3 | 5 |
| 48 | 8 | 4 | 7 | 12 | 5 | 5 | 8 | 2 | 8 | 0 | 5 | 4 | 8 | 1 | 8 | 48 | 4 | 4 | 7 | 1 | 9 | 35 | 3 | 3 | 7 | 9 | 10 | 23 | 1 | 3 | 6 | 8 | 11 | 10 | 0 | 2 |
| 49 | 14.0 | 13.6 | 7 | 7 | 3 | 2 | 15.0 | 3 | 7 | 55 | 2 | 1 | 16.0 | 2 | 8 | 42 | 1 | 1 | 9 | 2 | 9 | 29 | 4.9 | 0 | 9 | 17.0 | 10 | 16 | 5.8 | 0 | 8 | 9 | 1 | 3 | 6.7 | 7.9 |
| 50 | 2 | 7 | 7 | 2 | 0 | 2.9 | 2 | 14.5 | 7 | 49 | 2.9 | 3.8 | 2 | 4 | 8 | 36 | 3.8 | 4.8 | 17.1 | 3 | 9 | 22 | 6 | 5.7 | 18.1 | 1 | 10 | 9 | 5 | 6.7 | 19.1 | 18.0 | 10 | 55 | 3 | 6 |
| 51 | 4 | 8 | 6 | 57 | 1.7 | 6 | 4 | 6 | 7 | 43 | 6 | 5 | 4 | 15.5 | 8 | 29 | 5 | 5 | 3 | 16.5 | 9 | 15 | 3 | 4 | 3 | 2 | 10 | 1 | 1 | 4 | 3 | 1 | 10 | 47 | 0 | 3 |
| 52 | 6 | 9 | 6 | 52 | 4 | 3 | 6 | 8 | 7 | 37 | 3 | 2 | 6 | 7 | 8 | 23 | 2 | 2 | 5 | 6 | 9 | 8 | 0 | 1 | 5 | 4 | 9 | 54 | 4.8 | 1 | 5 | 2 | 10 | 39 | 5.7 | 0 |
| 53 | 9 | 14.1 | 6 | 47 | 1 | 0 | 8 | 15.0 | 7 | 31 | 0 | 2.9 | 8 | 8 | 8 | 16 | 2.9 | 3.9 | 7 | 7 | 9 | 1 | 3.7 | 4.8 | 7 | 17.5 | 9 | 46 | 5 | 5.7 | 7 | 18.4 | 10 | 31 | 4 | 6.6 |
| 54 | 15.2 | 3 | 6 | 41 | 0.8 | 1.6 | 16.1 | 1 | 7 | 25 | 1.7 | 5 | 17.1 | 16.0 | 8 | 10 | 5 | 5 | 18.0 | 8 | 8 | 54 | 3 | 4 | 9 | 7 | 9 | 38 | 2 | 3 | 9 | 5 | 10 | 22 | 0 | 2 |
| 55 | 5 | 5 | 6 | 36 | 5 | 2 | 4 | 3 | 7 | 19 | 3 | 1 | 4 | 1 | 8 | 3 | 1 | 1 | 3 | 17.0 | 8 | 47 | 2.9 | 0 | 19.2 | 8 | 9 | 30 | 3.8 | 4.9 | 20.2 | 6 | 10 | 14 | 4.6 | 5.8 |
| 56 | 8 | 7 | 6 | 30 | 1 | 0.8 | 7 | 5 | 7 | 13 | 0.9 | 1.7 | 7 | 3 | 7 | 56 | 1.7 | 2.7 | 6 | 1 | 8 | 39 | 5 | 3.6 | 5 | 9 | 9 | 22 | 4 | 5 | 4 | 8 | 10 | 5 | 2 | 4 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 7 5 8 } \varnothing ARC 106° 16'.9 } \varnothing 15° | | | | | | H. M. S. 7 9 26 } \varnothing 16° 107° 21'.5 } \varnothing 16° | | | | | | H. M. S. 7 13 44 } \varnothing 17° 108° 25'.9 } \varnothing 17° | | | | | | H. M. S. 7 18 1 } \varnothing 18° 109° 30'.2 } \varnothing 18° | | | | | | H. M. S. 7 22 18 } \varnothing 19° 110° 34'.4 } \varnothing 19° | | | | | | H. M. S. 7 26 34 } \varnothing 20° 111° 38'.4 } \varnothing 20° | | | | | |
|---|------|------|----|----|------|--|------|----|----|------|------|---|-----|----|------|------|------|--|----|------|------|------|------|---|------|------|------|------|------|---|---|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | Q | Q | Q | Q | f | Q | Q | Q | Q | f | Q | Q | Q | Q | f | Q | Q | Q | Q | f | Q | Q | Q | Q | f | Q | Q | Q | Q | f | | | | | |
| 22 | 16.1 | 16.6 | 15 | 4 | 14.2 | 17.1 | 17.6 | 16 | 3 | 15.2 | 18.1 | 18.7 | 17 | 3 | 16.2 | 19.1 | 19.8 | 18 | 2 | 17.2 | 20.2 | 20.8 | 19 | 1 | 18.2 | 21.2 | 21.9 | 20 | 0 | 19.1 | | | | | |
| 23 | 2 | 6 | 14 | 57 | 0 | 2 | 7 | 15 | 56 | 0 | 2 | 8 | 16 | 55 | 0 | 2 | 8 | 17 | 54 | 0 | 3 | 9 | 18 | 52 | 17.9 | 1 | 3 | 9 | 19 | 51 | | | | | |
| 24 | 3 | 7 | 14 | 51 | 13.8 | 3 | 8 | 15 | 49 | 14.8 | 3 | 9 | 16 | 48 | 15.8 | 3 | 9 | 17 | 46 | 16.7 | 4 | 9 | 18 | 44 | 7 | 0 | 4 | 22 | 0 | | | | | | |
| 25 | 4 | 8 | 14 | 44 | 6 | 4 | 9 | 15 | 42 | 6 | 4 | 9 | 16 | 40 | 5 | 4 | 20 | 0 | 17 | 38 | 5 | 5 | 21 | 0 | 18 | 36 | 5 | 17 | 5 | | | | | | |
| 26 | 5 | 9 | 14 | 37 | 4 | 5 | 9 | 15 | 35 | 3 | 7 | 18 | 5 | 19 | 0 | 5 | 19 | 5 | 0 | 17 | 30 | 6 | 20 | 6 | 1 | 18 | 27 | 3 | 7 | 21 | | | | | |
| 27 | 16.6 | 17.0 | 14 | 31 | 2 | 6 | 18 | 0 | 15 | 28 | 6 | 1 | 16 | 25 | 1 | 6 | 7 | 1 | 17 | 22 | 1 | 5 | 7 | 1 | 18 | 19 | 0 | 5 | 7 | 1 | | | | | |
| 28 | 7 | 1 | 14 | 24 | 12.9 | 7 | 1 | 15 | 21 | 13.9 | 8 | 1 | 16 | 18 | 14.9 | 8 | 2 | 1 | 17 | 14 | 15.8 | 8 | 2 | 18 | 10 | 16.8 | 3 | 8 | 2 | | | | | | |
| 29 | 8 | 1 | 14 | 17 | 7 | 8 | 2 | 15 | 14 | 7 | 9 | 2 | 16 | 10 | 6 | 9 | 2 | 17 | 6 | 6 | 2 | 9 | 2 | 18 | 2 | 6 | 2 | 9 | 2 | | | | | | |
| 30 | 9 | 2 | 14 | 10 | 5 | 1 | 18 | 0 | 2 | 15 | 6 | 5 | 1 | 19 | 0 | 1 | 20 | 0 | 3 | 16 | 2 | 4 | 1 | 20 | 0 | 3 | 17 | 53 | 3 | 0 | | | | | |
| 31 | 17.1 | 3 | 14 | 4 | 3 | 1 | 3 | 14 | 59 | 2 | 1 | 3 | 15 | 54 | 2 | 1 | 3 | 16 | 50 | 1 | 1 | 3 | 17 | 45 | 1 | 1 | 3 | 18 | 40 | | | | | | |
| 32 | 2 | 17 | 4 | 13 | 57 | 0 | 2 | 18 | 4 | 14 | 52 | 0 | 2 | 4 | 15 | 47 | 2 | 4 | 16 | 42 | 14.9 | 2 | 4 | 17 | 36 | 15.8 | 7 | 3 | 4 | | | | | | |
| 33 | 3 | 5 | 13 | 50 | 11.8 | 3 | 5 | 14 | 44 | 12.8 | 3 | 5 | 15 | 39 | 7 | 3 | 5 | 16 | 33 | 6 | 5 | 4 | 5 | 17 | 27 | 6 | 5 | 4 | 4 | | | | | | |
| 34 | 4 | 5 | 13 | 43 | 6 | 4 | 18 | 4 | 5 | 14 | 37 | 5 | 4 | 19 | 5 | 4 | 20 | 5 | 16 | 25 | 4 | 3 | 21 | 5 | 17 | 19 | 3 | 3 | 22 | | | | | | |
| 35 | 17.6 | 6 | 13 | 36 | 3 | 6 | 6 | 14 | 30 | 3 | 6 | 6 | 15 | 23 | 2 | 6 | 6 | 16 | 17 | 1 | 1 | 6 | 21 | 5 | 17 | 10 | 1 | 1 | 6 | | | | | | |
| 36 | 7 | 17 | 7 | 13 | 29 | 1 | 7 | 18 | 7 | 14 | 22 | 1 | 7 | 19 | 6 | 7 | 7 | 16 | 8 | 13 | 9 | 14.9 | 7 | 6 | 17 | 1 | 14.8 | 15.9 | 7 | 6 | | | | | |
| 37 | 8 | 8 | 13 | 22 | 10.9 | 9 | 8 | 14 | 15 | 11.9 | 9 | 7 | 15 | 7 | 7 | 9 | 7 | 16 | 0 | 6 | 7 | 9 | 7 | 16 | 52 | 5 | 7 | 9 | 6 | | | | | | |
| 38 | 18.0 | 9 | 13 | 15 | 7 | 6 | 19 | 0 | 8 | 14 | 7 | 6 | 6 | 20 | 0 | 5 | 21 | 0 | 8 | 15 | 51 | 4 | 5 | 22 | 0 | 7 | 16 | 43 | 3 | 5 | | | | | |
| 39 | 1 | 9 | 13 | 7 | 4 | 1 | 9 | 13 | 59 | 3 | 1 | 9 | 14 | 51 | 2 | 1 | 1 | 8 | 15 | 43 | 1 | 3 | 1 | 21 | 8 | 16 | 34 | 1 | 2 | 1 | | | | | |
| 40 | 3 | 18 | 0 | 13 | 0 | 1 | 3 | 19 | 0 | 13 | 51 | 0 | 1 | 3 | 9 | 14 | 3 | 9 | 15 | 34 | 12.9 | 1 | 3 | 8 | 16 | 25 | 13.8 | 0 | 3 | 7 | | | | | |
| 41 | 5 | 1 | 12 | 53 | 9.8 | 4 | 1 | 13 | 43 | 10.8 | 4 | 2 | 0 | 14 | 34 | 4 | 9 | 15 | 25 | 6 | 13.8 | 4 | 9 | 16 | 16 | 5 | 14.8 | 4 | 8 | 17 | | | | | |
| 42 | 6 | 2 | 12 | 45 | 6 | 7 | 19 | 6 | 1 | 13 | 35 | 5 | 6 | 20 | 6 | 6 | 21 | 6 | 21 | 0 | 15 | 16 | 3 | 6 | 22 | 6 | 9 | 16 | 6 | 2 | | | | | |
| 43 | 8 | 3 | 12 | 37 | 3 | 8 | 2 | 13 | 27 | 2 | 7 | 1 | 14 | 17 | 1 | 7 | 1 | 15 | 7 | 0 | 3 | 7 | 22 | 0 | 15 | 57 | 12.9 | 3 | 7 | 8 | | | | | |
| 44 | 19.0 | 18 | 4 | 12 | 30 | 0 | 9 | 19 | 3 | 13 | 19 | 9.9 | 1 | 9 | 2 | 14 | 9 | 2 | 14 | 58 | 11.6 | 0 | 9 | 1 | 15 | 47 | 5 | 0 | 9 | 9 | | | | | |
| 45 | 1 | 5 | 12 | 22 | 8.7 | 20.1 | 4 | 13 | 11 | 6 | 10.9 | 21.1 | 3 | 14 | 0 | 5 | 22 | 1 | 2 | 14 | 49 | 3 | 12.8 | 23.1 | 1 | 15 | 37 | 2 | 13.7 | 24 | | | | | |
| 46 | 2 | 6 | 12 | 14 | 4 | 6 | 2 | 5 | 13 | 2 | 3 | 6 | 2 | 20 | 4 | 1 | 3 | 14 | 39 | 0 | 5 | 2 | 2 | 15 | 27 | 11.9 | 4 | 2 | 23 | | | | | | |
| 47 | 4 | 6 | 12 | 6 | 1 | 4 | 4 | 6 | 12 | 54 | 0 | 4 | 4 | 4 | 13 | 42 | 3 | 3 | 21 | 3 | 14 | 30 | 10.7 | 2 | 4 | 2 | 15 | 17 | 6 | 2 | 3 | | | | |
| 48 | 6 | 18 | 7 | 11 | 58 | 7.8 | 1 | 6 | 19 | 7 | 12 | 45 | 8.7 | 1 | 5 | 5 | 5 | 13 | 33 | 5 | 0 | 5 | 4 | 14 | 20 | 4 | 0 | 6 | 22 | 3 | | | | | |
| 49 | 8 | 8 | 11 | 50 | 5 | 8.8 | 8 | 8 | 12 | 36 | 4 | 9.8 | 7 | 5 | 13 | 23 | 2 | 7 | 4 | 14 | 10 | 11.7 | 8 | 3 | 14 | 57 | 10.9 | 6 | 24 | 6 | | | | | |
| 50 | 20.0 | 9 | 11 | 41 | 2 | 5 | 21 | 0 | 8 | 12 | 28 | 0 | 5 | 9 | 20 | 6 | 9 | 5 | 14 | 0 | 9.7 | 4 | 9 | 4 | 14 | 46 | 6 | 3 | 8 | 2 | | | | | |
| 51 | 2 | 19 | 0 | 11 | 33 | 6.8 | 2 | 9 | 12 | 19 | 7.7 | 2 | 22 | 1 | 7 | 13 | 4 | 1 | 23 | 1 | 6 | 13 | 50 | 4 | 1 | 24 | 0 | 4 | 14 | 35 | | | | | |
| 52 | 4 | 1 | 11 | 24 | 5 | 7.9 | 4 | 20 | 0 | 12 | 9 | 4 | 8.9 | 3 | 8 | 12 | 54 | 2 | 3 | 21 | 7 | 13 | 39 | 0 | 10.7 | 22 | 5 | 14 | 24 | 9.8 | | | | | |
| 53 | 6 | 2 | 11 | 15 | 2 | 6 | 6 | 1 | 12 | 0 | 0 | 5 | 5 | 9 | 12 | 44 | 7.8 | 4 | 5 | 7 | 13 | 29 | 8.6 | 3 | 4 | 6 | 14 | 13 | 4 | 3 | 1 | | | | |
| 54 | 8 | 3 | 11 | 6 | 5.8 | 2 | 8 | 2 | 11 | 50 | 6.6 | 1 | 7 | 21 | 0 | 12 | 34 | 4 | 0 | 7 | 8 | 13 | 18 | 2 | 9.9 | 6 | 6 | 14 | 2 | 0 | | | | | |
| 55 | 21.1 | 4 | 10 | 57 | 4 | 6.8 | 22 | 0 | 3 | 11 | 40 | 2 | 7.7 | 23 | 0 | 1 | 12 | 24 | 0 | 8.6 | 9 | 6 | 1 | 7 | 7.8 | 5 | 8 | 7 | 13 | 50 | | | | | |
| 56 | 3 | 5 | 10 | 48 | 0 | 3 | 2 | 4 | 11 | 30 | 5.8 | 2 | 2 | 2 | 12 | 13 | 6.6 | 1 | 24 | 1 | 22 | 0 | 12 | 56 | 4 | 0 | 25 | 0 | 7 | 13 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 7 26 34 } $\overline{20^\circ}$ ARC 111° 38'.4 | | | | | | H. M. S. 7 30 49 } $\overline{21^\circ}$ 112° 42'.4 | | | | | | H. M. S. 7 35 5 } $\overline{22^\circ}$ 113° 46'.2 | | | | | | H. M. S. 7 39 19 } $\overline{23^\circ}$ 114° 49'.8 | | | | | | H. M. S. 7 43 33 } $\overline{24^\circ}$ 115° 53'.3 | | | | | | H. M. S. 7 47 47 } $\overline{25^\circ}$ 116° 56'.7 | | | | | |
|---|------|------|----|----|------|---|------|------|----|------|------|--|------|------|----|------|------|---|------|------|----|------|------|---|------|------|----|------|------|---|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | | | | | |
| 22 | 21.2 | 21.9 | 20 | 0 | 19.1 | 22.3 | 23.0 | 20 | 58 | 20.1 | 20.2 | 23.3 | 24.0 | 21 | 57 | 21.1 | 21.2 | 24.4 | 25.0 | 22 | 55 | 22.1 | 22.2 | 25.4 | 26.1 | 23 | 53 | 23.0 | 23.2 | 26.4 | | | | | |
| 23 | 3 | 9 | 19 | 51 | 18.9 | 1 | 4 | 0 | 20 | 49 | 19.9 | 1 | 4 | 0 | 21 | 47 | 20.8 | 1 | 5 | 1 | 22 | 45 | 21.8 | 0 | 5 | 1 | 23 | 43 | 22.8 | 0 | | | | | |
| 24 | 4 | 22 | 0 | 19 | 42 | 7 | 0 | 5 | 0 | 20 | 40 | 6 | 19.9 | 5 | 1 | 21 | 38 | 6 | 20.9 | 5 | 1 | 22 | 35 | 6 | 21.9 | 6 | 1 | 23 | 32 | 5 | | | | | |
| 25 | 5 | 0 | 19 | 33 | 4 | 18.8 | 6 | 1 | 20 | 31 | 4 | 8 | 6 | 1 | 21 | 28 | 4 | 7 | 6 | 1 | 22 | 25 | 3 | 7 | 7 | 1 | 23 | 22 | 3 | | | | | | |
| 26 | 21.6 | 1 | 19 | 24 | 2 | 6 | 22.7 | 1 | 20 | 21 | 2 | 6 | 23.7 | 1 | 21 | 18 | 1 | 6 | 24.7 | 2 | 22 | 15 | 1 | 6 | 25.8 | 2 | 23 | 11 | 0 | | | | | | |
| 27 | 7 | 1 | 19 | 16 | 0 | 5 | 8 | 23.2 | 20 | 12 | 18.9 | 5 | 8 | 24.2 | 21 | 9 | 19.9 | 4 | 8 | 25.2 | 22 | 5 | 20.8 | 4 | 9 | 26.2 | 23 | 1 | 21.8 | 3 | | | | | |
| 28 | 8 | 2 | 19 | 7 | 17.7 | 3 | 9 | 2 | 20 | 3 | 7 | 3 | 9 | 2 | 20 | 59 | 6 | 2 | 9 | 2 | 21 | 54 | 6 | 2 | 9 | 2 | 22 | 50 | 5 | | | | | | |
| 29 | 9 | 22.2 | 18 | 58 | 5 | 1 | 23.0 | 2 | 19 | 53 | 5 | 1 | 24.0 | 2 | 20 | 49 | 4 | 1 | 25.0 | 2 | 21 | 44 | 3 | 0 | 26.0 | 2 | 22 | 39 | 3 | | | | | | |
| 30 | 22.0 | 3 | 18 | 49 | 3 | 0 | 1 | 3 | 19 | 44 | 2 | 18.9 | 1 | 3 | 20 | 39 | 2 | 19.9 | 1 | 3 | 21 | 34 | 1 | 20.9 | 1 | 3 | 22 | 29 | 0 | | | | | | |
| 31 | 1 | 3 | 18 | 40 | 0 | 17.8 | 2 | 3 | 19 | 35 | 0 | 8 | 2 | 3 | 20 | 29 | 18.9 | 7 | 2 | 3 | 21 | 24 | 19.8 | 7 | 2 | 3 | 22 | 18 | 20.8 | 6 | | | | | |
| 32 | 3 | 4 | 18 | 31 | 16.8 | 6 | 3 | 23.4 | 19 | 25 | 17.7 | 6 | 3 | 24.3 | 20 | 19 | 7 | 5 | 3 | 25.3 | 21 | 13 | 6 | 5 | 3 | 26.3 | 22 | 7 | 5 | | | | | | |
| 33 | 4 | 4 | 18 | 22 | 5 | 4 | 4 | 4 | 19 | 16 | 5 | 4 | 4 | 4 | 20 | 9 | 4 | 4 | 4 | 4 | 21 | 3 | 3 | 3 | 4 | 3 | 21 | 56 | 2 | | | | | | |
| 34 | 22.5 | 22.5 | 18 | 12 | 2 | 2 | 23.5 | 4 | 19 | 6 | 2 | 2 | 24.5 | 4 | 19 | 59 | 1 | 2 | 25.5 | 4 | 20 | 52 | 0 | 1 | 26.5 | 4 | 21 | 46 | 0 | | | | | | |
| 35 | 6 | 5 | 18 | 3 | 0 | 0 | 6 | 5 | 18 | 56 | 16.9 | 0 | 6 | 4 | 19 | 49 | 17.8 | 0 | 6 | 4 | 20 | 42 | 18.8 | 19.9 | 6 | 4 | 21 | 35 | 19.7 | | | | | | |
| 36 | 7 | 6 | 17 | 54 | 15.7 | 16.8 | 7 | 5 | 18 | 47 | 7 | 17.8 | 7 | 5 | 19 | 39 | 6 | 18.8 | 8 | 4 | 20 | 31 | 5 | 7 | 8 | 4 | 21 | 23 | 4 | | | | | | |
| 37 | 9 | 6 | 17 | 44 | 5 | 6 | 9 | 23.6 | 18 | 37 | 5 | 6 | 9 | 24.5 | 19 | 28 | 3 | 6 | 9 | 25.4 | 20 | 21 | 2 | 5 | 9 | 26.4 | 21 | 12 | 1 | | | | | | |
| 38 | 23.0 | 22.7 | 17 | 35 | 3 | 4 | 24.0 | 6 | 18 | 27 | 2 | 4 | 25.0 | 6 | 19 | 18 | 0 | 3 | 26.0 | 4 | 20 | 10 | 17.9 | 3 | 27.0 | 4 | 21 | 1 | 18.8 | 3 | | | | | |
| 39 | 1 | 7 | 17 | 25 | 0 | 2 | 1 | 7 | 18 | 17 | 15.9 | 2 | 1 | 6 | 19 | 8 | 16.7 | 1 | 1 | 5 | 19 | 59 | 6 | 1 | 1 | 5 | 20 | 50 | 5 | | | | | | |
| 40 | 3 | 7 | 17 | 16 | 14.7 | 0 | 3 | 7 | 18 | 7 | 6 | 16.9 | 3 | 6 | 18 | 57 | 4 | 17.9 | 2 | 5 | 19 | 48 | 3 | 18.9 | 2 | 5 | 20 | 38 | 2 | | | | | | |
| 41 | 4 | 8 | 17 | 6 | 4 | 15.7 | 4 | 7 | 17 | 56 | 2 | 7 | 4 | 7 | 18 | 47 | 0 | 6 | 4 | 5 | 19 | 37 | 16.9 | 6 | 4 | 5 | 20 | 27 | 17.8 | 6 | | | | | |
| 42 | 23.6 | 22.8 | 16 | 56 | 0 | 5 | 24.5 | 23.8 | 17 | 46 | 14.9 | 4 | 25.5 | 24.7 | 18 | 36 | 15.7 | 4 | 26.5 | 25.5 | 19 | 25 | 6 | 3 | 27.5 | 26.5 | 20 | 15 | 5 | | | | | | |
| 43 | 7 | 8 | 16 | 46 | 13.7 | 2 | 7 | 8 | 17 | 36 | 6 | 2 | 7 | 7 | 18 | 25 | 4 | 1 | 7 | 5 | 19 | 14 | 3 | 1 | 6 | 6 | 20 | 3 | 2 | | | | | | |
| 44 | 9 | 9 | 16 | 36 | 4 | 0 | 8 | 9 | 17 | 25 | 3 | 15.9 | 8 | 8 | 18 | 14 | 1 | 16.9 | 8 | 6 | 19 | 2 | 0 | 17.8 | 8 | 6 | 19 | 51 | 16.9 | | | | | | |
| 45 | 24.0 | 9 | 16 | 26 | 1 | 14.7 | 25.0 | 9 | 17 | 14 | 13.9 | 6 | 26.0 | 8 | 18 | 2 | 14.8 | 6 | 27.0 | 6 | 18 | 50 | 15.7 | 5 | 9 | 6 | 19 | 39 | 6 | | | | | | |
| 46 | 2 | 23.0 | 16 | 15 | 12.7 | 4 | 1 | 24.0 | 17 | 3 | 6 | 4 | 1 | 8 | 17 | 51 | 5 | 3 | 1 | 25.6 | 18 | 38 | 3 | 2 | 28.0 | 6 | 19 | 26 | 2 | | | | | | |
| 47 | 3 | 0 | 16 | 5 | 4 | 1 | 2 | 0 | 16 | 52 | 3 | 1 | 2 | 24.9 | 17 | 39 | 1 | 0 | 2 | 7 | 18 | 26 | 0 | 0 | 1 | 26.7 | 19 | 14 | 15.8 | 17.9 | | | | | |
| 48 | 4 | 1 | 15 | 54 | 1 | 13.8 | 4 | 0 | 16 | 41 | 0 | 14.8 | 4 | 9 | 17 | 28 | 13.8 | 15.7 | 3 | 7 | 18 | 14 | 14.7 | 16.7 | 3 | 7 | 19 | 1 | 5 | | | | | | |
| 49 | 24.6 | 1 | 15 | 43 | 11.8 | 5 | 25.6 | 1 | 16 | 29 | 12.6 | 5 | 26.5 | 9 | 17 | 16 | 5 | 4 | 27.5 | 7 | 18 | 2 | 3 | 3 | 5 | 7 | 18 | 48 | 2 | | | | | | |
| 50 | 8 | 2 | 15 | 32 | 4 | 2 | 8 | 1 | 16 | 18 | 2 | 1 | 7 | 9 | 17 | 3 | 1 | 1 | 7 | 25.8 | 17 | 49 | 13.9 | 0 | 28.6 | 7 | 18 | 34 | 14.8 | | | | | | |
| 51 | 9 | 23.3 | 15 | 21 | 0 | 12.9 | 9 | 24.1 | 16 | 6 | 11.8 | 13.8 | 8 | 25.0 | 16 | 51 | 12.7 | 14.8 | 8 | 8 | 17 | 36 | 5 | 15.7 | 7 | 7 | 18 | 21 | 4 | | | | | | |
| 52 | 25.1 | 3 | 15 | 9 | 10.6 | 5 | 26.1 | 2 | 15 | 54 | 4 | 5 | 27.0 | 0 | 16 | 38 | 3 | 4 | 9 | 9 | 17 | 23 | 1 | 3 | 9 | 26.8 | 18 | 7 | 0 | | | | | | |
| 53 | 3 | 4 | 14 | 57 | 2 | 1 | 3 | 3 | 15 | 41 | 0 | 1 | 2 | 1 | 16 | 25 | 11.9 | 1 | 28.1 | 9 | 17 | 9 | 12.7 | 14.9 | 29.1 | 8 | 17 | 53 | 13.6 | | | | | | |
| 54 | 5 | 4 | 14 | 45 | 9.8 | 11.7 | 5 | 3 | 15 | 29 | 10.6 | 12.7 | 4 | 1 | 16 | 12 | 5 | 13.7 | 3 | 26.0 | 16 | 55 | 3 | 5 | 3 | 8 | 17 | 38 | 1 | | | | | | |
| 55 | 7 | 5 | 14 | 33 | 4 | 3 | 7 | 4 | 15 | 16 | 2 | 3 | 6 | 2 | 15 | 59 | 0 | 2 | 5 | 0 | 16 | 41 | 11.8 | 1 | 5 | 8 | 17 | 24 | 6 | | | | | | |
| 56 | 9 | 6 | 14 | 20 | 0 | 10.9 | 9 | 5 | 15 | 3 | 9.8 | 11.8 | 8 | 3 | 15 | 45 | 10.6 | 12.7 | 7 | 1 | 16 | 27 | 3 | 13.6 | 7 | 9 | 17 | 9 | 12.1 | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

23

| H. M. S. SID. T. 7 51 59 } $\overline{26}^{\circ}$ ARC 117° 59'.9 | | | | | | H. M. S. 7 56 12 } $\overline{27}^{\circ}$ 119° 2'.9 | | | | | | H. M. S. 8 0 23 } $\overline{28}^{\circ}$ 120° 5'.8 | | | | | | H. M. S. 8 4 34 } $\overline{29}^{\circ}$ 121° 8'.5 | | | | | | H. M. S. 8 8 44 } $\Omega 0^{\circ}$ 122° 11'.1 | | | | | | H. M. S. 8 12 54 } $\Omega 1^{\circ}$ 123° 13'.4 | | | | | |
|---|----------|----------|-------------|--------|------------|--|----------|-------------|--------|------------|----------|---|-------------|--------|------------|----------|-------------|---|--------|------------|----------|-------------|-------------|---|------------|----------|-------------|-------------|--------|--|----------|-------------|--------|------------|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | Ω | ϖ | \triangle | \cap | \uparrow | Ω | ϖ | \triangle | \cap | \uparrow | Ω | \triangle | \triangle | \cap | \uparrow | ϖ | \triangle | \triangle | \cap | \uparrow | ϖ | \triangle | \triangle | \cap | \uparrow | ϖ | \triangle | \triangle | \cap | \uparrow | ϖ | \triangle | \cap | \uparrow | |
| 22 | 27.5 | 28.2 | 25.49 | 25.0 | 25.1 | 28.5 | 29.2 | 26.46 | 25.9 | 26.1 | 29.6 | 0.2 | 27.43 | 26.9 | 27.0 | 0.6 | 1.2 | 28.40 | 27.9 | 28.0 | 1.7 | 2.2 | 29.37 | 28.8 | 28.9 | 2.7 | 3.2 | 0.33 | 29.7 | 29.9 | | | | | |
| 23 | 6 | 2 | 25 37 | 24.7 | 24.9 | 6 | 2 | 26 34 | 7 | 25.9 | 7 | 2 | 27 31 | 7 | 26.8 | 7 | 2 | 28 27 | 6 | 27.8 | 7 | 2 | 29 24 | 5 | 8 | 8 | 2 | 0 | 20 | 5 | 7 | | | | |
| 24 | 7 | 2 | 25 26 | 5 | 8 | 7 | 2 | 26 22 | 4 | 7 | 7 | 2 | 27 19 | 4 | 7 | 8 | 2 | 28 15 | 3 | 6 | 8 | 2 | 29 11 | 3 | 6 | 9 | 2 | 0 | 7 | 2 | 6 | | | | |
| 25 | 7 | 2 | 25 14 | 2 | 6 | 8 | 2 | 26 10 | 2 | 6 | 8 | 2 | 27 7 | 1 | 5 | 9 | 2 | 28 3 | 1 | 5 | 9 | 2 | 28 58 | 0 | 4 | 9 | 2 | 7 | 54 | 28 | 9 | 4 | | | |
| 26 | 8 | 2 | 25 3 | 0 | 4 | 9 | 2 | 25 59 | 24.9 | 4 | 9 | 2 | 26 55 | 25.9 | 4 | 9 | 2 | 27 50 | 26.8 | 3 | 2.0 | 2 | 28 45 | 27.7 | 3 | 3.0 | 3.2 | 29 41 | 7 | 2 | | | | | |
| 27 | 9 | 28.2 | 24 52 | 23.7 | 3 | 9 | 29.2 | 25 47 | 7 | 2 | ϖ | 0.2 | 26 43 | 6 | 2 | 1.0 | 1.2 | 27 38 | 5 | 1 | 1 | 2.2 | 28 33 | 5 | 1 | 1 | 1 | 29 27 | 4 | 0 | | | | | |
| 28 | 28.0 | 2 | 24 41 | 5 | 1 | 29.0 | 2 | 25 36 | 4 | 1 | 0.1 | 2 | 26 30 | 4 | 0 | 1 | 2 | 27 25 | 3 | 0 | 1 | 2 | 28 20 | 2 | 27.9 | 2 | 1 | 29 14 | 1 | 28 | 9 | | | | |
| 29 | 1 | 2 | 24 29 | 2 | 23.9 | 1 | 2 | 25 24 | 2 | 24.9 | 2 | 2 | 26 18 | 1 | 25.8 | 2 | 2 | 27 13 | 0 | 26.8 | 2 | 1 | 28 7 | 26.9 | 7 | 3 | 1 | 29 | 1 | 27.9 | 7 | | | | |
| 30 | 2 | 2 | 24 18 | 0 | 7 | 2 | 2 | 25 12 | 23.9 | 7 | 2 | 2 | 26 6 | 24.8 | 7 | 3 | 2 | 27 0 | 25.7 | 6 | 2.3 | 1 | 27 54 | 6 | 6 | 3.3 | 3.1 | 28 47 | 6 | 5 | | | | | |
| 31 | 3 | 2 | 24 6 | 22.7 | 6 | 3 | 2 | 25 0 | 6 | 5 | 3 | 2 | 25 54 | 5 | 5 | 1.4 | 2 | 26 47 | 5 | 4 | 4 | 1 | 27 41 | 4 | 4 | 4 | 1 | 28 34 | 3 | 3 | | | | | |
| 32 | 4 | 28.2 | 23 55 | 4 | 4 | 4 | 29.2 | 24 48 | 3 | 3 | 4 | 0.2 | 25 41 | 3 | 3 | 5 | 1.2 | 26 34 | 2 | 2 | 5 | 2.1 | 27 27 | 1 | 2 | 5 | 1 | 28 20 | 0 | 1 | | | | | |
| 33 | 28.5 | 3 | 23 43 | 1 | 2 | 29.5 | 2 | 24 36 | 1 | 1 | 0.5 | 2 | 25 29 | 0 | 1 | 5 | 1 | 26 22 | 24.9 | 0 | 6 | 1 | 27 14 | 25.8 | 0 | 6 | 0 | 28 | 6 | 26.7 | 27.9 | | | | |
| 34 | 6 | 3 | 23 31 | 21.9 | 0 | 6 | 2 | 24 24 | 22.8 | 0 | 6 | 2 | 25 16 | 23.7 | 24.9 | 6 | 1 | 26 9 | 6 | 25.9 | 2.7 | 1 | 27 1 | 5 | 26.8 | 3.7 | 3.0 | 27 53 | 4 | 8 | | | | | |
| 35 | 7 | 3 | 23 19 | 6 | 22.8 | 7 | 2 | 24 12 | 5 | 23.8 | 7 | 2 | 25 4 | 4 | 7 | 1.7 | 1 | 25 56 | 3 | 7 | 8 | 1 | 26 47 | 2 | 6 | 8 | 0 | 27 39 | 1 | 6 | | | | | |
| 36 | 8 | 3 | 23 7 | 3 | 6 | 8 | 2 | 23 59 | 2 | 6 | 8 | 2 | 24 51 | 1 | 5 | 8 | 1 | 25 42 | 0 | 5 | 8 | 0 | 26 34 | 24.9 | 4 | 9 | 0 | 27 24 | 25.8 | 4 | | | | | |
| 37 | 9 | 28.3 | 22 55 | 0 | 4 | 9 | 29.2 | 23 47 | 21.9 | 3 | 9 | 0.2 | 24 38 | 22.8 | 3 | 9 | 1.1 | 25 29 | 23.7 | 2 | 9 | 2.0 | 26 20 | 6 | 2 | 4.0 | 0 | 27 10 | 4 | 1 | | | | | |
| 38 | 29.0 | 3 | 22 43 | 20.7 | 2 | ϖ | 2 | 23 34 | 6 | 1 | 1.0 | 2 | 24 25 | 5 | 1 | 2.0 | 1 | 25 16 | 4 | 0 | 3.0 | 0 | 26 6 | 3 | 0 | 6 | 2 | 26 56 | 1 | 26.9 | | | | | |
| 39 | 1 | 3 | 22 31 | 3 | 21.9 | 0.1 | 2 | 23 22 | 3 | 22.9 | 1 | 2 | 24 12 | 2 | 23.8 | 1 | 1 | 25 2 | 1 | 24.8 | 1 | 0 | 25 52 | 0 | 25.7 | 1 | 9 | 26 42 | 24.8 | 7 | | | | | |
| 40 | 2 | 3 | 22 19 | 0 | 7 | 2 | 2 | 23 9 | 20.9 | 7 | 2 | 2 | 23 58 | 21.8 | 6 | 2 | 1 | 24 48 | 22.7 | 6 | 2 | 0 | 25 38 | 23.6 | 5 | 2 | 9 | 26 27 | 4 | 5 | | | | | |
| 41 | 4 | 3 | 22 6 | 19.7 | 5 | 3 | 2 | 22 56 | 6 | 4 | 3 | 2 | 23 45 | 5 | 4 | 3 | 1.1 | 24 34 | 4 | 3 | 3 | 0 | 25 23 | 2 | 3 | 4.3 | 9 | 26 12 | 1 | 2 | | | | | |
| 42 | 29.5 | 28.3 | 21 53 | 3 | 2 | 5 | 29.2 | 22 42 | 2 | 1 | 5 | 0.2 | 23 31 | 1 | 1 | 5 | 0 | 24 20 | 0 | 0 | 4 | 1 | 25 9 | 22.9 | 0 | 4 | 8 | 25 57 | 23.7 | 25.9 | | | | | |
| 43 | 6 | 3 | 21 40 | 0 | 20.9 | 0.6 | 2 | 22 29 | 19.9 | 21.9 | 1.6 | 1 | 23 17 | 20.8 | 22.8 | 2.6 | 0 | 24 6 | 21.6 | 23.8 | 3.5 | 9 | 24 54 | 5 | 24.7 | 6 | 28 | 25 42 | 3 | 7 | | | | | |
| 44 | 7 | 3 | 21 27 | 18.6 | 7 | 7 | 2 | 22 16 | 5 | 6 | 7 | 1 | 23 3 | 4 | 5 | 7 | 0 | 23 51 | 3 | 5 | 6 | 9 | 24 39 | 1 | 4 | 7 | 8 | 25 26 | 0 | 4 | | | | | |
| 45 | 9 | 4 | 21 14 | 3 | 4 | 8 | 2 | 22 2 | 2 | 3 | 8 | 1 | 22 49 | 0 | 3 | 8 | 1.0 | 23 37 | 20.9 | 2 | 7 | 9 | 24 24 | 21.7 | 2 | 4.7 | 8 | 25 11 | 22.4 | 1 | | | | | |
| 46 | ϖ | 4 | 21 1 | 17.9 | 1 | 9 | 2 | 21 48 | 18.8 | 0 | 9 | 1 | 22 35 | 19.6 | 0 | 9 | 0 | 23 22 | 5 | 22.9 | 8 | 9 | 24 8 | 3 | 23.9 | 8 | 7 | 24 55 | 2 | 24.8 | | | | | |
| 47 | 0.1 | 28.4 | 20 47 | 5 | 19.8 | 1.0 | 29.2 | 21 34 | 5 | 20.7 | 2.0 | 0.1 | 22 20 | 3 | 21.7 | 3.0 | 0 | 23 7 | 2 | 6 | 9 | 18 | 23 53 | 20.9 | 6 | 9 | 7 | 24 39 | 21.8 | 5 | | | | | |
| 48 | 2 | 4 | 20 33 | 2 | 5 | 2 | 2 | 21 19 | 1 | 4 | 1 | 1 | 22 5 | 18.9 | 4 | 1 | 0 | 22 51 | 19.8 | 3 | 4.0 | 8 | 23 37 | 5 | 2 | 5.0 | 2 | 24 22 | 4 | 2 | | | | | |
| 49 | 4 | 4 | 20 19 | 16.8 | 2 | 3 | 2 | 21 5 | 17.7 | 0 | 2 | 1 | 21 50 | 5 | 0 | 3 | 0 | 22 35 | 4 | 0 | 1 | 8 | 23 21 | 1 | 22.9 | 2 | 7 | 24 5 | 0 | 23.9 | | | | | |
| 50 | 5 | 4 | 20 5 | 4 | 18.8 | 5 | 2 | 20 50 | 3 | 19.7 | 4 | 1 | 21 35 | 1 | 20.7 | 4 | 9 | 22 19 | 18.9 | 21.6 | 3 | 8 | 23 4 | 19.7 | 5 | 3 | 6 | 23 49 | 20.6 | 5 | | | | | |
| 51 | 7 | 4 | 19 50 | 0 | 5 | 1.6 | 2 | 20 35 | 16.9 | 4 | 2.5 | 1 | 21 19 | 17.7 | 4 | 3.5 | 9 | 22 3 | 5 | 3 | 4 | 8 | 22 47 | 3 | 2 | 4 | 6 | 23 31 | 1 | 2 | | | | | |
| 52 | 8 | 28.4 | 19 35 | 15.6 | 1 | 8 | 29.2 | 20 19 | 5 | 0 | 7 | 0.1 | 21 3 | 3 | 0 | 6 | 9 | 21 47 | 1 | 20.9 | 4.5 | 1.7 | 22 30 | 18.9 | 21.9 | 5.5 | 2 | 21 13 | 19.6 | 22.8 | | | | | |
| 53 | 1.0 | 4 | 19 20 | 2 | 17.7 | 9 | 2 | 20 3 | 0 | 18.6 | 8 | 0 | 20 47 | 16.8 | 19.6 | 8 | 0 | 21 30 | 17.6 | 5 | 6 | 7 | 22 12 | 4 | 5 | 7 | 5 | 22 55 | 1 | 4 | | | | | |
| 54 | 1 | 4 | 19 4 | 7 | 3 | 2.1 | 2 | 19 47 | 15.5 | 2 | 3.0 | 0 | 20 30 | 3 | 1 | 9 | 9 | 21 12 | 1 | 1 | 8 | 7 | 21 55 | 17.9 | 0 | 8 | 5 | 22 37 | 18.6 | 21.8 | | | | | |
| 55 | 3 | 4 | 18 49 | 14.2 | 16.8 | 3 | 2 | 19 31 | 0 | 17.8 | 2 | 0 | 20 13 | 15.8 | 18.7 | 4.1 | 8 | 20 5 | 16.6 | 19.6 | 5.0 | 6 | 21 36 | 4 | 20.5 | 6.0 | 4 | 22 18 | 1 | 4 | | | | | |
| 56 | 5 | 5 | 18 32 | 13.7 | 3 | 4 | 2 | 19 14 | 14.5 | 3 | 3 | 0 | 19 55 | 3 | 1 | 2 | 8 | 20 37 | 1 | 1 | 1 | 6 | 21 18 | 16.9 | 0 | 1 | 4 | 21 59 | 17.6 | 21.9 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 8 12 54 } ARC 123° 13' 4 } 1° | | | | | | H. M. S. 8 17 3 } 124° 15' 6 } 2° | | | | | | H. M. S. 8 21 11 } 125° 17' 7 } 3° | | | | | | H. M. S. 8 25 18 } 126° 19' 5 } 4° | | | | | | H. M. S. 8 29 25 } 127° 21' 2 } 5° | | | | | | H. M. S. 8 33 31 } 128° 22' 7 } 6° | | | | | |
|--|-----|-----|-------|--------|------|---|-------|--------|--------|-----|-------|--|--------|------|-----|-------|--------|--|--------|-------|--------|-------|-------|--|-------|-------|-------|--------|--------|--|--|--|--|--|--|
| 11 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ☉ | ☿ | ♊ | ♋ | ♌ | ☉ | ☿ | ♊ | ♋ | ♌ | ☉ | ☿ | ♊ | ♋ | ♌ | ☉ | ☿ | ♊ | ♋ | ♌ | ☉ | ☿ | ♊ | ♋ | ♌ | ☉ | ☿ | ♊ | ♋ | ♌ | | | | | |
| 22 | 2.7 | 3.2 | 0 33 | 29.7 | 29.9 | 3.8 | 4.3 | 1 29 | 0.6 | 0.8 | 4.9 | 5.2 | 2 25 | 1.6 | 1.8 | 5.9 | 6.3 | 3 21 | 2.5 | 2.7 | 6.9 | 7.2 | 4 17 | 3.5 | 3.7 | 8.0 | 8.2 | 5 12 | 4.4 | 4.6 | | | | | |
| 23 | 8 | 2 | 0 20 | 5 | 7 | 9 | 2 | 1 16 | 4 | 7 | 9 | 2 | 2 12 | 3 | 6 | 6.0 | 2 | 3 7 | 3 | 6 | 7.0 | 2 | 4 2 | 2 | 5 | 0 | 2 | 4 57 | 1 | 5 | | | | | |
| 24 | 9 | 2 | 0 7 | 2 | 6 | 9 | 2 | 1 2 | 1 | 5 | 5.0 | 2 | 1 58 | 1 | 5 | 0 | 2 | 2 53 | 0 | 4 | 1 | 2 | 3 48 | 2.9 | 4 | 1 | 1 | 4 42 | 3.8 | 3 | | | | | |
| 25 | 9 | 2 | 29 54 | 28.9 | 4 | 4.0 | 2 | 0 49 | 29.8 | 3 | 1 | 2 | 1 44 | 0.8 | 3 | 1 | 1 | 2 39 | 1.7 | 2 | 1 | 1 | 3 33 | 6 | 2 | 2 | 1 | 4 27 | 6 | 1 | | | | | |
| 26 | 3.0 | 3.2 | 29 41 | 7 | 2 | 1 | 2 | 0 35 | 6 | 2 | 1 | 5.1 | 1 30 | 5 | 1 | 2 | 1 | 2 24 | 4 | 1 | 2 | 7.1 | 3 18 | 4 | 0 | 2 | 8.0 | 4 12 | 3 | 0 | | | | | |
| 27 | 1 | 1 | 29 27 | 4 | 0 | 1 | 4.1 | 0 22 | 3 | 0 | 2 | 1 | 1 16 | 2 | 0 | 2 | 6.1 | 2 10 | 2 | 1.9 | 3 | 0 | 3 4 | 1 | 2.8 | 8.3 | 0 | 3 57 | 0 | 3.8 | | | | | |
| 28 | 2 | 1 | 29 14 | 1 28.9 | 2 | 2 | 1 0 8 | 0 29.8 | 3 | 1 | 1 | 1 2 | 0 | 0.8 | 6.3 | 0 | 1 55 | 0.9 | 7 | 7.3 | 0 | 2 49 | 1.8 | 7 | 3 | 0 | 3 42 | 2.7 | 6 | | | | | | |
| 29 | 3 | 1 | 29 1 | 27.9 | 7 | 4.3 | 1 | 29 54 | 28.7 | 6 | 5.3 | 0 | 0 48 | 29.7 | 6 | 4 | 0 | 1 41 | 6 | 5 | 4 | 0 | 2 34 | 5 | 5 | 4 | 7.9 | 3 27 | 4 | 4 | | | | | |
| 30 | 3.3 | 3.1 | 28 47 | 6 | 5 | 4 | 1 | 29 40 | 5 | 5 | 4 | 5.0 | 0 34 | 4 | 4 | 4 | 0 | 1 26 | 3 | 4 | 5 | 6.9 | 2 19 | 2 | 3 | 5 | 9 | 3 12 | 1 | 3 | | | | | |
| 31 | 4 | 1 | 28 34 | 3 | 3 | 5 | 4.0 | 29 27 | 2 | 3 | 5 | 0 | 0 19 | 1 | 2 | 5 | 5.9 | 1 12 | 0 | 2 | 5 | 9 | 2 4 | 0.9 | 1 | 6 | 8 | 2 56 | 1.8 | 1 | | | | | |
| 32 | 5 | 1 | 28 20 | 0 | 1 | 5 | 0 | 29 13 | 27.9 | 1 | 6 | 0 | 0 5 | 28.8 | 0 | 6 | 9 | 0 57 | 29.7 | 0 | 6 | 8 | 1 49 | 6 | 1.9 | 8.6 | 8 | 2 41 | 5 | 2.9 | | | | | |
| 33 | 6 | 0 | 28 6 | 26.7 | 27.9 | 4.6 | 0 | 28 59 | 6 28.9 | 5.7 | 4.9 | 29 51 | 5 29.8 | 6.7 | 9 | 0 42 | 4 | 0.8 | 7.7 | 8 | 1 34 | 3 | 7 | 7 | 7 | 2 25 | 2 | 7 | | | | | | | |
| 34 | 3.7 | 3.0 | 27 53 | 4 | 8 | 7 | 0 | 28 44 | 3 | 7 | 7 | 9 | 29 36 | 2 | 7 | 8 | 8 | 0 27 | 1 | 6 | 8 | 8 | 1 18 | 0 | 5 | 8 | 7.7 | 2 9 | 0.9 | 5 | | | | | |
| 35 | 8 | 0 | 27 39 | 1 | 6 | 8 | 3.9 | 28 30 | 0 | 5 | 8 | 9 | 29 21 | 27.9 | 5 | 8 | 8 | 0 12 | 28.8 | 4 | 8 | 6.7 | 1 3 | 29.6 | 3 | 8 | 6 | 1 53 | 5 | 3 | | | | | |
| 36 | 9 | 0 | 27 24 | 25.8 | 4 | 9 | 9 | 28 16 | 26.6 | 3 | 9 | 8 | 29 6 | 5 | 3 | 9 | 5.8 | 29 57 | 4 | 2 | 9 | 7 | 0 47 | 3 | 1 | 9 | 6 | 1 37 | 2 | 1 | | | | | |
| 37 | 4.0 | 0 | 27 10 | 4 | 1 | 5.0 | 9 | 28 1 | 3 | 1 | 6.0 | 8 | 28 51 | 2 | 0 | 7.0 | 7 | 29 41 | 1 | 0 | 8.0 | 6 | 0 31 | 0 | 0.9 | 9.0 | 5 | 1 21 | 29.9 | 1.9 | | | | | |
| 38 | 0 | 2.9 | 26 56 | 1 26.9 | 1 | 9 | 27 46 | 0 27.9 | 1 | 4.8 | 28 36 | 26.9 | 28.8 | 1 | 7 | 29 26 | 27.8 | 29.8 | 1 | 6 | 0 15 | 28.6 | 7 | 1 | 5 | 1 5 | 5 | 7 | | | | | | | |
| 39 | 1 | 9 | 26 42 | 24.8 | 7 | 2 | 8 | 27 31 | 25.6 | 6 | 2 | 7 | 28 21 | 5 | 6 | 2 | 6 | 29 10 | 5 | 5 | 2 | 5 | 29 59 | 3 | 5 | 2 | 7.4 | 0 48 | 1 | 4 | | | | | |
| 40 | 2 | 9 | 26 27 | 4 | 5 | 3 | 3.8 | 27 16 | 3 | 4 | 2 | 7 | 28 5 | 2 | 4 | 2 | 6 | 28 54 | 1 | 3 | 2 | 6.5 | 29 43 | 27.9 | 2 | 2 | 4 | 0 31 | 28.8 | 2 | | | | | |
| 41 | 4.3 | 9 | 26 12 | 1 | 2 | 5.4 | 8 | 27 1 | 24.9 | 2 | 6.3 | 7 | 27 49 | 25.8 | 1 | 7.3 | 5.5 | 28 38 | 26.8 | 0 | 3 | 4 | 29 26 | 5 | 0 | 3 | 3 | 0 14 | 4 | 0.9 | | | | | |
| 42 | 4 | 8 | 25 57 | 23.7 | 25.9 | 5 | 7 | 26 45 | 5 26.9 | 4 | 6 | 27 34 | 4 27.8 | 4 | 5 | 28 22 | 4 28.8 | 8.4 | 4 | 29 9 | 1 29.7 | 9.4 | 3 | 29 57 | 0 | 7 | | | | | | | | | |
| 43 | 6 | 2.8 | 25 42 | 3 | 7 | 6 | 7 | 26 30 | 2 | 6 | 5 | 4 27 17 | 0 | 6 | 5 | 4 | 28 5 | 0 | 5 | 5 | 3 | 28 52 | 26.7 | 5 | 5 | 2 | 29 40 | 27.6 | 4 | | | | | | |
| 44 | 7 | 8 | 25 26 | 0 | 4 | 6 | 7 | 26 14 | 23.8 | 3 | 6 | 5 | 27 1 | 24.6 | 3 | 6 | 4 | 27 48 | 25.6 | 2 | 5 | 3 | 28 35 | 3 | 2 | 5 | 7.1 | 29 22 | 2 | 1 | | | | | |
| 45 | 4.7 | 8 | 25 11 | 22.6 | 1 | 5.7 | 3.6 | 25 58 | 5 | 1 | 6.6 | 5 | 26 44 | 3 | 0 | 7.7 | 4 | 27 31 | 2 27.9 | 6 | 6.2 | 28 17 | 25.9 | 28.9 | 6 | 1 | 29 4 | 26.8 | 29.8 | | | | | | |
| 46 | 8 | 7 | 24 55 | 2 24.8 | 8 | 6 | 25 41 | 1 25.8 | 7 | 5 | 26 27 | 23.9 | 26.7 | 7 | 5.3 | 27 14 | 24.8 | 6 | 8.7 | 2 | 28 0 | 6 | 6 | 9.6 | 0 | 28 46 | 3 | 5 | | | | | | | |
| 47 | 9 | 7 | 24 39 | 21.8 | 5 | 9 | 6 | 25 25 | 22.7 | 4 | 9 | 4 | 26 10 | 5 | 4 | 8 | 3 | 26 56 | 3 | 3 | 8 | 1 | 27 42 | 2 | 3 | 7 | 0 | 28 27 | 25.9 | 2 | | | | | |
| 48 | 5.0 | 2.7 | 24 22 | 4 | 2 | 6.0 | 5 | 25 8 | 3 | 1 | 7.0 | 4.4 | 25 53 | 1 | 1 | 9 | 2 | 26 38 | 23.9 | 0 | 9 | 1 | 27 23 | 24.7 | 27.9 | 8 | 6.9 | 28 8 | 5 | 28.9 | | | | | |
| 49 | 2 | 7 | 24 5 | 0 23.9 | 1 | 3.5 | 24 50 | 21.9 | 24.8 | 1 | 3 | 25 35 | 22.7 | 25.7 | 8.0 | 2 | 26 20 | 4 26.7 | 9 | 0 | 27 4 | 3 | 6 | 9 | 8 | 27 49 | 1 | 5 | | | | | | | |
| 50 | 3 | 6 | 23 49 | 20.6 | 5 | 2 | 5 | 24 33 | 4 | 4 | 2 | 3 | 25 17 | 2 | 3 | 1 | 5.1 | 26 1 | 0 | 3 | 9.0 | 5.9 | 26 45 | 23.8 | 2 | 10.0 | 8 | 27 29 | 24.6 | 1 | | | | | |
| 51 | 4 | 6 | 23 31 | 1 | 2 | 3 | 4 | 24 15 | 20.9 | 1 | 3 | 2 | 24 59 | 21.7 | 0 | 2 | 1 | 25 42 | 22.5 | 0 | 1 | 9 | 26 26 | 3 26.9 | 1 | 7 | 27 9 | 1 27.7 | | | | | | | |
| 52 | 5.5 | 2.6 | 23 13 | 19.6 | 22.8 | 6.4 | 4 | 23 57 | 4 23.7 | 7.4 | 4.2 | 24 40 | 2 24.6 | 3 | 0 | 25 23 | 0 25.6 | 2 | 8 | 26 6 | 22.8 | 5 | 2 | 6.6 | 26 49 | 23.6 | 3 | | | | | | | | |
| 53 | 7 | 5 | 22 55 | 1 | 4 | 6 | 3.3 | 23 38 | 19.9 | 3 | 5 | 2 | 24 21 | 20.7 | 2 | 8.4 | 0 | 25 3 | 21.5 | 2 | 3 | 8 | 25 45 | 3 | 1 | 3 | 6 | 26 28 | 1 26.9 | | | | | | |
| 54 | 8 | 5 | 22 37 | 18.6 | 21.9 | 7 | 3 | 23 19 | 4 22.8 | 6 | 1 | 24 1 | 2 23.8 | 5 | 4.9 | 24 43 | 0 24.7 | 9.4 | 5.7 | 25 25 | 21.8 | 25.6 | 10.4 | 5 | 26 6 | 22.6 | 5 | | | | | | | | |
| 55 | 6.0 | 4 | 22 18 | 1 | 4 | 9 | 2 | 23 0 | 18.9 | 3 | 8 | 0 | 23 41 | 19.7 | 3 | 7 | 8 | 24 22 | 20.5 | 2 | 6 | 6 | 25 3 | 3 | 1 | 6 | 4 | 25 45 | 0 | 0 | | | | | |
| 56 | 1 | 4 | 21 59 | 17.6 | 20.9 | 7.0 | 2 | 22 40 | 4 21.8 | 9 | 0 | 23 20 | 1 22.8 | 8 | 8 | 24 1 | 19.9 | 23.7 | 7 | 6 | 24 42 | 20.7 | 24.6 | 7 | 3 | 25 22 | 21.4 | 25.5 | | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

25

| H. M. S. SID. T. 8 37 36 } Ω ARC 129° 24' 0 } 7° | | | | | | H. M. S. 8 41 41 } Ω 8° 130° 25' 2 } | | | | | | H. M. S. 8 45 44 } Ω 9° 131° 26' 1 } | | | | | | H. M. S. 8 49 48 } Ω 10° 132° 26' 9 } | | | | | | H. M. S. 8 53 50 } Ω 11° 133° 27' 5 } | | | | | | H. M. S. 8 57 52 } Ω 12° 134° 27' 9 } | | | | | |
|---|------|-----|-------|------------|------|---|------|-------|------------|------|------|---|-------|------------|------|------|------|--|------------|------|------|------|-------|--|------|------|------|-------|------------|--|-----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ☉ | ☽ | ♂ | ♀ | ♂ | ☉ | ☽ | ♂ | ♀ | ♂ | ☉ | ☽ | ♂ | ♀ | ♂ | ☉ | ☽ | ♂ | ♀ | ♂ | ☉ | ☽ | ♂ | ♀ | ♂ | ☉ | ☽ | ♂ | ♀ | ♂ | ☉ | ☽ | ♂ | ♀ | ♂ |
| 22 | 9.0 | 9.2 | 6 7 | 5.3 | 5.6 | 10.0 | 10.2 | 7 2 | 6.3 | 6.5 | 11.1 | 11.2 | 7 57 | 7.2 | 7.4 | 12.1 | 12.2 | 8 51 | 8.1 | 8.4 | 13.1 | 13.1 | 9 46 | 9.0 | 9.3 | 14.1 | 14.1 | 10 40 | 9.9 | 10.3 | | | | | |
| 23 | 1 | 2 | 5 52 | 0 | 4 | 1 | 2 | 6 47 | 0 | 3 | 1 | 1 | 7 41 | 6.9 | 3 | 1 | 1 | 8 35 | 7.8 | 2 | 2 | 1 | 9 29 | 8.7 | 2 | 2 | 0 | 10 23 | 6 | 1 | | | | | |
| 24 | 1 | 1 | 5 37 | 4.8 | 2 | 1 | 1 | 6 31 | 5.7 | 2 | 2 | 1 | 7 25 | 6 | 1 | 2 | 0 | 8 19 | 5 | 1 | 2 | 0 | 9 12 | 4 | 0 | 2 | 0 | 10 6 | 3 | 9.9 | | | | | |
| 25 | 2 | 1 | 5 21 | 5 | 1 | 2 | 0 | 6 15 | 4 | 0 | 2 | 0 | 7 9 | 3 | 0 | 2 | 0 | 8 3 | 2 | 7.9 | 3 | 12.9 | 8 56 | 1 | 8.8 | 3 | 13.9 | 9 49 | 0 | 8 | | | | | |
| 26 | 3 | 0 | 5 6 | 2 | 4.9 | 3 | 0 | 6 0 | 1 | 5.9 | 3 | 10.9 | 6 53 | 0 | 6.8 | 12.3 | 11.9 | 7 46 | 6.9 | 7 | 13.3 | 9 | 8 39 | 7.8 | 7 | 3 | 8 | 9 32 | 8.7 | 6 | | | | | |
| 27 | 9.3 | 0 | 4 51 | 3.9 | 7 | 10.3 | 9.9 | 5 44 | 4.8 | 7 | 11.3 | 9 | 6 37 | 5.7 | 6 | 3 | 8 | 7 30 | 6 | 6 | 4 | 8 | 8 22 | 5 | 5 | 14.4 | 7 | 9 15 | 4 | 4 | | | | | |
| 28 | 4 | 8.9 | 4 35 | 6 | 6 | 4 | 9 | 5 28 | 5 | 5 | 4 | 8 | 6 21 | 4 | 4 | 4 | 8 | 7 13 | 3 | 4 | 4 | 7 | 8 5 | 2 | 3 | 4 | 7 | 8 58 | 1 | 3 | | | | | |
| 29 | 4 | 9 | 4 20 | 3 | 4 | 4 | 8 | 5 12 | 2 | 3 | 5 | 8 | 6 4 | 1 | 3 | 5 | 7 | 6 57 | 0 | 2 | 5 | 6 | 7 48 | 6.9 | 1 | 5 | 13.6 | 8 40 | 7.8 | 1 | | | | | |
| 30 | 5 | 8 | 4 4 | 0 | 2 | 5 | 8 | 4 56 | 3.9 | 1 | 5 | 10.7 | 5 48 | 4.8 | 1 | 12.5 | 6 | 6 40 | 5.7 | 0 | 13.5 | 12.6 | 7 31 | 6 | 0 | 5 | 5 | 8 23 | 5 | 8.9 | | | | | |
| 31 | 6 | 8 | 3 48 | 2.7 | 0 | 6 | 9.7 | 4 40 | 6 | 0 | 6 | 6 | 5 31 | 5 | 5.9 | 6 | 11.6 | 6 23 | 4 | 6.8 | 6 | 5 | 7 14 | 3 | 7.8 | 14.6 | 4 | 8 5 | 2 | 7 | | | | | |
| 32 | 9.6 | 7 | 3 32 | 4 | 3.8 | 10.6 | 6 | 4 24 | 3 | 4.8 | 11.6 | 6 | 5 15 | 2 | 7 | 6 | 5 | 6 6 | 1 | 6 | 6 | 4 | 6 57 | 5.9 | 6 | 6 | 3 | 7 48 | 6.8 | 5 | | | | | |
| 33 | 7 | 8.7 | 3 16 | 1 | 6 | 7 | 6 | 4 7 | 0 | 6 | 7 | 5 | 4 58 | 3.9 | 5 | 7 | 4 | 5 49 | 4.8 | 5 | 7 | 3 | 6 39 | 6 | 4 | 7 | 13.3 | 7 30 | 5 | 3 | | | | | |
| 34 | 8 | 6 | 3 0 | 1.8 | 4 | 8 | 5 | 3 51 | 2.7 | 4 | 8 | 10.4 | 4 41 | 5 | 3 | 12.8 | 4 | 5 31 | 4 | 3 | 13.7 | 12.3 | 6 22 | 3 | 2 | 7 | 2 | 7 12 | 2 | 1 | | | | | |
| 35 | 8 | 6 | 2 44 | 4 | 2 | 8 | 9.5 | 3 34 | 3 | 2 | 8 | 4 | 4 24 | 2 | 1 | 8 | 3 | 5 14 | 1 | 1 | 8 | 2 | 6 4 | 4.9 | 0 | 14.8 | 1 | 6 53 | 5.8 | 7.9 | | | | | |
| 36 | 9 | 5 | 2 27 | 1 | 0 | 9 | 4 | 3 17 | 0 | 0 | 9 | 3 | 4 7 | 2.8 | 4.9 | 9 | 11.2 | 4 56 | 3.7 | 5.8 | 9 | 1 | 5 46 | 6 | 6.8 | 8 | 0 | 6 35 | 5 | 7 | | | | | |
| 37 | 10.0 | 8.4 | 2 11 | 0.7 | 2.8 | 11.0 | 3 | 3 0 | 1.6 | 3.8 | 12.0 | 2 | 3 49 | 5 | 7 | 9 | 1 | 4 39 | 4 | 6 | 9 | 0 | 5 28 | 2 | 6 | 9 | 12.9 | 6 16 | 1 | 5 | | | | | |
| 38 | 1 | 4 | 1 54 | 4 | 6 | 0 | 3 | 2 43 | 3 | 5 | 0 | 10.2 | 3 32 | 1 | 5 | 13.0 | 1 | 4 21 | 0 | 4 | 14.0 | 11.9 | 5 9 | 3.8 | 4 | 9 | 8 | 5 57 | 4.7 | 3 | | | | | |
| 39 | 1 | 3 | 1 37 | 0 | 4 | 1 | 9.2 | 2 26 | 0.9 | 3 | 1 | 1 | 3 14 | 1.8 | 2 | 1 | 0 | 4 2 | 2.6 | 2 | 0 | 9 | 4 50 | 5 | 1 | 15.0 | 7 | 5 38 | 3 | 1 | | | | | |
| 40 | 2 | 3 | 1 20 | μ 29.7 | 1 | 2 | 2 | 2 8 | 5 | 1 | 2 | 0 | 2 56 | 4 | 0 | 1 | 10.9 | 3 44 | 3 | 4.9 | 1 | 8 | 4 31 | 1 | 5.9 | 1 | 7 | 5 19 | 0 | 6.8 | | | | | |
| 41 | 3 | 8.2 | 1 2 | 3 | 1.9 | 3 | 1 | 1 50 | 1 | 2.8 | 2 | 0 | 2 37 | 0 | 3.7 | 2 | 8 | 3 25 | 1.9 | 7 | 2 | 7 | 4 12 | 2.7 | 6 | 1 | 12.6 | 4 59 | 3.5 | 6 | | | | | |
| 42 | 10.4 | 1 | 0 45 | 28.9 | 6 | 11.4 | 0 | 1 32 | μ 29.7 | 5 | 12.3 | 9.9 | 2 19 | 0.6 | 5 | 3 | 7 | 3 6 | 5 | 4 | 14.2 | 11.6 | 3 53 | 3 | 4 | 2 | 5 | 4 39 | 1 | 3 | | | | | |
| 43 | 5 | 1 | 0 27 | 5 | 3 | 4 | 8.9 | 1 13 | 3 | 3 | 4 | 8 | 2 0 | 2 | 2 | 13.3 | 7 | 2 47 | 0 | 2 | 3 | 5 | 3 33 | 1.9 | 1 | 15.2 | 4 | 4 19 | 2.7 | 0 | | | | | |
| 44 | 5 | 0 | 0 8 | 1 | 1 | 5 | 9 | 0 55 | 28.9 | 0 | 4 | 7 | 1 41 | μ 29.8 | 2.9 | 4 | 10.6 | 2 27 | 0.6 | 3.9 | 3 | 4 | 3 13 | 4 | 4.8 | 3 | 3 | 3 59 | 3 | 5.8 | | | | | |
| 45 | 6 | 7.9 | 29 50 | 27.6 | 0.8 | 6 | 8 | 0 36 | 5 | 1.7 | 5 | 6 | 1 22 | 3 | 6 | 4 | 5 | 2 7 | 2 | 6 | 4 | 3 | 2 53 | 0 | 5 | 3 | 12.3 | 3 38 | 1.8 | 5 | | | | | |
| 46 | 6 | 9 | 29 31 | 2 | 5 | 6 | 7 | 0 17 | 1 | 4 | 5 | 9.6 | 1 | 2 28.9 | 3 | 5 | 4 | 1 47 | μ 29.7 | 3 | 14.4 | 11.2 | 2 32 | 0.6 | 2 | 4 | 2 | 3 17 | 4 | 2 | | | | | |
| 47 | 10.7 | 8 | 29 12 | 26.8 | 1 | 11.7 | 6 | 29 57 | 27.7 | 1 | 12.6 | 5 | 0 42 | 5 | 0 | 5 | 3 | 1 27 | 3 | 0 | 5 | 1 | 2 11 | 2 | 3.9 | 15.4 | 1 | 2 55 | 0.9 | 4.5 | | | | | |
| 48 | 8 | 7 | 28 53 | 4 | 29.8 | 7 | 8.6 | 29 37 | 2 | 0.8 | 7 | 4 | 0 21 | 0 | 1.7 | 13.6 | 10.2 | 1 | 6 28.9 | 2.6 | 5 | 1 | 1 50 | μ 29.7 | 5 | 5 | 0 | 2 34 | 5 | 5 | | | | | |
| 49 | 8 | 7.7 | 28 33 | 0 | 5 | 8 | 5 | 29 17 | 26.7 | 4 | 8 | 3 | 0 1 | 27.6 | 3 | 7 | 2 | 0 45 | 4 | 3 | 6 | 0 | 1 28 | 2 | 1 | 5 | 11.9 | 2 11 | 0 | 2 | | | | | |
| 50 | 9 | 6 | 28 13 | 25.5 | 1 | 9 | 4 | 28 56 | 3 | 0 | 8 | 9.2 | 29 40 | 1 | 0.9 | 7 | 1 | 0 23 | 27.9 | 1.9 | 14.6 | 10.9 | 1 | 6 28.7 | 2.8 | 6 | 7 | 1 47 | μ 29.5 | 3.5 | | | | | |
| 51 | 11.0 | 5 | 27 52 | 0 | 28.8 | 12.0 | 3 | 28 35 | 25.8 | 29.7 | 9 | 1 | 29 18 | 26.6 | 5 | 8 | 0 | 0 1 | 4 | 6 | 7 | 8 | 0 43 | 2 | 4 | 15.7 | 6 | 1 57 | 0 | 4 | | | | | |
| 52 | 1 | 4 | 27 31 | 24.5 | 4 | 1 | 8.2 | 28 14 | 3 | 3 | 13.0 | 1 | 28 56 | 1 | 1 | 9 | 9.9 | 29 38 | 26.9 | 2 | 8 | 7 | 0 20 | 27.7 | 0 | 8 | 5 | 1 | 2 28.4 | 0 | | | | | |
| 53 | 2 | 7.3 | 27 10 | 0 | 0 | 2 | 1 | 27 52 | 24.8 | 28.9 | 1 | 0 | 28 34 | 25.5 | 29.7 | 14.0 | 8 | 29 15 | 3 | 0.7 | 9 | 6 | 29 57 | 1 | 1.6 | 8 | 11.4 | 0 38 | 27.5 | 2.6 | | | | | |
| 54 | 3 | 3 | 26 48 | 23.4 | 27.5 | 3 | 0 | 27 29 | 2 | 4 | 2 | 8.9 | 28 11 | 24.9 | 3 | 1 | 7 | 28 51 | 25.7 | 3 | 15.0 | 10.5 | 29 32 | 26.8 | 1 | 9 | 3 | 0 13 | 2 | 1 | | | | | |
| 55 | 5 | 2 | 26 25 | 22.8 | 26.9 | 4 | 0 | 27 | 6 | 23.6 | 27.9 | 3 | 8 | 27 47 | 3 | 28.8 | 2 | 6 | 28 27 | 1 | 29.7 | 1 | 4 | 29 | 25.9 | 0.6 | 16.1 | 1 | 45 | 26.6 | 1.6 | | | | |
| 56 | 6 | 1 | 26 3 | 2 | 4 | 5 | 7.9 | 26 43 | 0 | 4 | 4 | 7 | 27 23 | 23.7 | 3 | 3 | 5 | 28 | 3 | 24.5 | 2 | 2 | 28 42 | 2 | 1 | 1 | 0 | 29 22 | 0 | 0 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 8 57 52 } Ω ARC 134° 27'9 } 12° | | | | | H. M. S. 9 1 53 } Ω 13° 135° 28'1 } 13° | | | | | H. M. S. 9 5 53 } Ω 14° 136° 28'2 } 14° | | | | | H. M. S. 9 9 52 } Ω 15° 137° 28'0 } 15° | | | | | H. M. S. 9 13 51 } Ω 16° 138° 27'7 } 16° | | | | | H. M. S. 9 17 49 } Ω 17° 139° 27'2 } 17° | | | | | |
|---|----------|---------|----------|----------|--|----------|---------|----------|----------|--|----------|---------|----------|----------|--|----------|---------|----------|----------|---|----------|---------|----------|----------|---|----------|---------|----------|----------|------------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ |
| 22 | 14.1 | 14.1 | 10 40 | 9.9 | 10.3 | 15.1 | 15.1 | 11 33 | 10.8 | 11.2 | 16.2 | 16.0 | 12 27 | 11.7 | 12.1 | 17.2 | 17.0 | 13 20 | 12.6 | 13.1 | 18.2 | 17.9 | 14 13 | 13.5 | 14.0 | 19.2 | 18.9 | 15 6 | 14.3 | 14.9 |
| 23 | 2 | 0 | 10 23 | 6 | 1 | 2 | 0 | 11 16 | 5 | 0 | 2 | 15.9 | 12 9 | 4 | 0 | 2 | 16.9 | 13 3 | 3 | 12.9 | 2 | 9 | 13 55 | 2 | 13.8 | 2 | 8 | 14 48 | 0 | 8 |
| 24 | 2 | 0 | 10 6 | 3 | 9.9 | 2 | 14.9 | 10 59 | 2 | 10.9 | 2 | 9 | 11 52 | 1 | 11.8 | 2 | 8 | 12 45 | 0 | 8 | 3 | 8 | 13 37 | 12.9 | 7 | 3 | 7 | 14 30 | 13.7 | 6 |
| 25 | 3 | 13.9 | 9 49 | 0 | 8 | 3 | 8 | 10 42 | 9.9 | 7 | 3 | 8 | 11 34 | 10.8 | 7 | 3 | 8 | 12 27 | 11.7 | 6 | 3 | 7 | 13 19 | 6 | 5 | 3 | 6 | 14 11 | 4 | 5 |
| 26 | 3 | 8 | 9 32 | 8.7 | 6 | 3 | 7 | 10 25 | 6 | 6 | 3 | 7 | 11 17 | 5 | 5 | 3 | 7 | 12 9 | 4 | 4 | 3 | 17.6 | 13 1 | 3 | 4 | 3 | 5 | 13 52 | 1 | 3 |
| 27 | 14.4 | 7 | 9 15 | 4 | 4 | 15.4 | 7 | 10 7 | 3 | 4 | 16.4 | 15.6 | 10 59 | 2 | 3 | 17.4 | 16.6 | 11 51 | 1 | 3 | 18.4 | 5 | 12 42 | 0 | 2 | 19.3 | 18.4 | 13 34 | 12.8 | 1 |
| 28 | 4 | 7 | 8 58 | 1 | 3 | 4 | 14.6 | 9 50 | 0 | 2 | 4 | 5 | 10 41 | 9.9 | 1 | 4 | 5 | 11 33 | 10.8 | 1 | 4 | 4 | 12 24 | 11.6 | 0 | 4 | 3 | 13 15 | 5 | 13.9 |
| 29 | 5 | 13.6 | 8 40 | 7.8 | 1 | 5 | 5 | 9 32 | 8.7 | 0 | 5 | 4 | 10 23 | 6 | 0 | 4 | 4 | 11 14 | 4 | 11.9 | 4 | 3 | 12 5 | 3 | 12.8 | 4 | 2 | 12 56 | 2 | 8 |
| 30 | 5 | 5 | 8 23 | 5 | 8.9 | 5 | 4 | 9 14 | 4 | 9.8 | 5 | 3 | 10 5 | 2 | 10.8 | 5 | 3 | 10 56 | 1 | 7 | 5 | 17.2 | 11 47 | 0 | 7 | 5 | 1 | 12 37 | 11.9 | 6 |
| 31 | 14.6 | 4 | 8 5 | 2 | 7 | 15.6 | 3 | 8 56 | 0 | 7 | 5 | 15.3 | 9 47 | 8.9 | 6 | 5 | 16.2 | 10 37 | 9.8 | 5 | 5 | 1 | 11 28 | 10.7 | 5 | 19.5 | 0 | 12 18 | 6 | 4 |
| 32 | 6 | 3 | 7 48 | 6.8 | 5 | 6 | 14.3 | 8 38 | 7.7 | 5 | 16.6 | 2 | 9 28 | 6 | 4 | 17.6 | 1 | 10 19 | 5 | 3 | 18.6 | 0 | 11 8 | 3 | 3 | 5 | 17.9 | 11 58 | 2 | 2 |
| 33 | 7 | 13.3 | 7 30 | 5 | 3 | 7 | 2 | 8 20 | 4 | 3 | 6 | 1 | 9 10 | 3 | 2 | 6 | 0 | 10 0 | 1 | 1 | 6 | 16.9 | 10 49 | 0 | 1 | 6 | 8 | 11 39 | 10.9 | 0 |
| 34 | 7 | 2 | 7 12 | 2 | 1 | 7 | 1 | 8 1 | 0 | 1 | 7 | 0 | 8 51 | 7.9 | 0 | 6 | 15.9 | 9 40 | 8.8 | 10.9 | 6 | 8 | 10 30 | 9.7 | 11.9 | 6 | 7 | 11 19 | 5 | 12.8 |
| 35 | 14.8 | 1 | 6 53 | 5.8 | 7.9 | 15.8 | 0 | 7 43 | 6.7 | 8.9 | 7 | 14.9 | 8 32 | 5 | 9.8 | 7 | 8 | 9 21 | 4 | 7 | 7 | 7 | 10 10 | 3 | 7 | 19.6 | 6 | 10 59 | 1 | 6 |
| 36 | 8 | 0 | 6 35 | 5 | 7 | 8 | 13.9 | 7 24 | 3 | 7 | 16.8 | 8 | 8 13 | 2 | 6 | 7 | 7 | 9 1 | 0 | 5 | 7 | 6 | 9 50 | 8.9 | 5 | 7 | 5 | 10 38 | 9.8 | 4 |
| 37 | 9 | 12.9 | 6 16 | 1 | 5 | 9 | 8 | 7 5 | 0 | 5 | 8 | 7 | 7 53 | 6.8 | 4 | 17.8 | 6 | 8 42 | 7.7 | 3 | 18.8 | 5 | 9 30 | 5 | 2 | 7 | 17.3 | 10 18 | 4 | 2 |
| 38 | 9 | 8 | 5 57 | 4.7 | 3 | 9 | 7 | 6 46 | 5.7 | 2 | 9 | 6 | 7 34 | 4 | 2 | 8 | 5 | 8 22 | 3 | 1 | 8 | 16.4 | 9 9 | 1 | 0 | 8 | 2 | 9 57 | 0 | 0 |
| 39 | 15.0 | 7 | 5 38 | 3 | 1 | 16.0 | 6 | 6 26 | 3 | 0 | 9 | 5 | 7 14 | 0 | 8.9 | 9 | 15.4 | 8 1 | 6.9 | 9.9 | 8 | 2 | 8 48 | 7.7 | 10.8 | 19.8 | 1 | 9 36 | 8.6 | 11.7 |
| 40 | 1 | 7 | 5 19 | 0 | 6.8 | 0 | 5 | 6 6 | 4.9 | 7.8 | 17.0 | 14.4 | 6 53 | 5.6 | 7 | 9 | 3 | 7 40 | 6 | 6 | 9 | 1 | 8 27 | 3 | 5 | 8 | 0 | 9 15 | 2 | 5 |
| 41 | 1 | 12.6 | 4 59 | 3.5 | 6 | 1 | 13.4 | 5 46 | 5 | 5 | 0 | 3 | 6 33 | 2 | 4 | 18.0 | 1 | 7 20 | 2 | 4 | 9 | 0 | 8 6 | 6.9 | 3 | 9 | 16.9 | 8 53 | 7.8 | 2 |
| 42 | 2 | 5 | 4 39 | 1 | 3 | 1 | 3 | 5 26 | 1 | 2 | 0 | 2 | 6 12 | 4.8 | 2 | 0 | 0 | 6 59 | 5.7 | 1 | 19.0 | 15.9 | 7 45 | 5 | 0 | 9 | 7 | 8 31 | 4 | 0 |
| 43 | 15.2 | 4 | 4 19 | 2.7 | 0 | 2 | 2 | 5 6 | 3.7 | 0 | 1 | 1 | 5 51 | 4 | 7.9 | 1 | 14.9 | 6 37 | 3 | 8.8 | 0 | 8 | 7 23 | 1 | 9.8 | 20.0 | 6 | 8 9 | 6.9 | 10.7 |
| 44 | 3 | 3 | 3 59 | 3 | 5.8 | 16.2 | 1 | 4 45 | 2 | 6.7 | 17.1 | 0 | 5 30 | 3.9 | 6 | 1 | 8 | 6 16 | 4.8 | 5 | 0 | 7 | 7 1 | 5.6 | 5 | 0 | 5 | 7 46 | 5 | 4 |
| 45 | 3 | 12.3 | 3 38 | 1.8 | 5 | 3 | 0 | 4 23 | 2.8 | 4 | 2 | 13.9 | 5 9 | 5 | 3 | 1 | 7 | 5 54 | 3 | 2 | 1 | 6 | 6 38 | 1 | 2 | 0 | 16.4 | 7 23 | 0 | 1 |
| 46 | 4 | 2 | 3 17 | 4 | 2 | 3 | 12.9 | 4 2 | 3 | 1 | 2 | 8 | 4 47 | 0 | 0 | 18.2 | 6 | 5 31 | 3.9 | 7.9 | 1 | 15.5 | 6 15 | 4.7 | 8.9 | 1 | 3 | 7 0 | 5.5 | 9.8 |
| 47 | 15.4 | 1 | 2 55 | 0.9 | 4.8 | 4 | 9 | 3 39 | 1.8 | 5.8 | 3 | 7 | 4 24 | 2.5 | 6.7 | 2 | 5 | 5 8 | 4 | 6 | 19.2 | 4 | 5 52 | 2 | 6 | 1 | 2 | 6 36 | 0 | 5 |
| 48 | 5 | 0 | 2 34 | 5 | 5 | 16.4 | 8 | 3 18 | 3 | 4 | 17.3 | 6 | 4 1 | 1 | 4 | 3 | 14.4 | 4 45 | 0 | 3 | 2 | 2 | 5 28 | 3.8 | 2 | 20.1 | 0 | 6 12 | 4.6 | 2 |
| 49 | 5 | 11.9 | 2 11 | 0 | 2 | 5 | 7 | 2 55 | 0.8 | 1 | 4 | 5 | 3 38 | 1.6 | 0 | 3 | 3 | 4 21 | 2.5 | 6.9 | 3 | 1 | 5 4 | 3 | 7.9 | 2 | 15.9 | 5 47 | 1 | 8.9 |
| 50 | 6 | 7 | 1 49 | 29.5 | 3.8 | 5 | 5 | 2 32 | 3 | 4.7 | 4 | 13.3 | 3 14 | 1 | 5.6 | 4 | 1 | 3 57 | 1.9 | 6 | 3 | 14.9 | 4 39 | 2.7 | 5 | 2 | 7 | 5 22 | 3.5 | 5 |
| 51 | 15.7 | 6 | 1 26 | 0 | 4 | 6 | 12.4 | 2 8 | 29.8 | 3 | 5 | 2 | 2 50 | 0.6 | 3 | 18.4 | 0 | 3 32 | 3 | 2 | 4 | 8 | 4 14 | 1 | 1 | 3 | 6 | 4 56 | 2.9 | 1 |
| 52 | 8 | 5 | 1 2 | 28.4 | 0 | 16.7 | 3 | 1 44 | 2 | 7.9 | 17.5 | 1 | 2 25 | 0 | 4.9 | 5 | 13.9 | 3 7 | 0.7 | 5.8 | 19.4 | 7 | 3 48 | 1.5 | 6.7 | 20.3 | 5 | 4 30 | 3 | 7.6 |
| 53 | 8 | 11.4 | 0 38 | 27.8 | 2.6 | 7 | 2 | 1 19 | 28.6 | 5 | 6 | 0 | 2 0 | 29.4 | 4 | 5 | 8 | 2 41 | 1 | 4 | 5 | 6 | 3 22 | 0.9 | 3 | 4 | 15.4 | 4 3 | 1.7 | 2 |
| 54 | 9 | 3 | 0 13 | 2 | 1 | 8 | 1 | 0 54 | 0 | 0 | 7 | 12.9 | 1 34 | 28.8 | 3.9 | 6 | 7 | 2 15 | 29.5 | 4.9 | 5 | 14.4 | 2 55 | 3 | 5.8 | 4 | 2 | 3 35 | 1 | 6.7 |
| 55 | 16.0 | 1 | 29 48 | 26.6 | 1.6 | 9 | 11.9 | 0 28 | 27.4 | 2.5 | 8 | 7 | 1 8 | 1 | 4 | 7 | 5 | 1 48 | 28.9 | 4 | 6 | 2 | 2 27 | 29.7 | 3 | 5 | 0 | 3 7 | 0.4 | 2 |
| 56 | 1 | 0 | 29 22 | 0 | 0 | 17.0 | 7 | 0 2 | 26.7 | 0 | 9 | 6 | 0 41 | 27.4 | 2.9 | 7 | 3 | 1 20 | 2 | 3.8 | 6 | 0 | 1 59 | 0 | 4.7 | 5 | 14.8 | 2 38 | 29.7 | 5.6 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

27

| H. M. S. SID. T. 9 21 46 } Ω ARC 140° 26'.6 } 18° | | | | | | H. M. S. 9 25 43 } Ω 19° 141° 25'.7 } | | | | | | H. M. S. 9 29 30 } Ω 20° 142° 24'.7 } | | | | | | H. M. S. 9 33 34 } Ω 21° 143° 23'.5 } | | | | | | H. M. S. 9 37 29 } Ω 22° 144° 22'.2 } | | | | | | H. M. S. 9 41 23 } Ω 23° 145° 20'.6 } | | | | | |
|---|------|------|-------|------|------|---|------|-------|-------|------|------|---|-------|-------|------|------|------|---|-------|------|------|------|-------|---|-------|------|------|-------|-------|---|-------|------|------|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ☿ | ♈ | ♊ | ♉ | ♈ | ☿ | ♈ | ♊ | ♉ | ♈ | ☿ | ♈ | ♊ | ♉ | ♈ | ☿ | ♈ | ♊ | ♉ | ♈ | ☿ | ♈ | ♊ | ♉ | ♈ | ☿ | ♈ | ♊ | ♉ | ♈ | | | | | |
| 22 | 20.2 | 19.8 | 15.59 | 15.2 | 15.9 | 21.2 | 20.8 | 16.51 | 16.1 | 16.8 | 22.2 | 21.7 | 17.43 | 17.0 | 17.7 | 23.2 | 22.7 | 18.35 | 17.9 | 18.7 | 24.2 | 23.6 | 19.27 | 18.8 | 19.6 | 25.2 | 24.5 | 20.19 | 19.6 | 20.5 | | | | | |
| 23 | 2 | 7 | 15.40 | 14.9 | 7 | 2 | 7 | 16.32 | 15.8 | 6 | 2 | 6 | 17.24 | 16.7 | 6 | 2 | 6 | 18.16 | 17.6 | 5 | 2 | 5 | 19.7 | 19.2 | 4 | 2 | 4 | 19.59 | 19.1 | 4 | | | | | |
| 24 | 3 | 6 | 15.21 | 14.7 | 5 | 2 | 6 | 16.13 | 15.6 | 5 | 3 | 5 | 17.5 | 17.0 | 4 | 3 | 4 | 17.56 | 17.0 | 3 | 2 | 4 | 18.45 | 17.9 | 3 | 2 | 3 | 19.39 | 18.9 | 2 | | | | | |
| 25 | 3 | 5 | 15.3 | 14.8 | 4 | 3 | 5 | 15.54 | 15.0 | 3 | 3 | 4 | 16.46 | 15.9 | 2 | 3 | 3 | 17.37 | 16.8 | 2 | 2 | 2 | 18.28 | 17.7 | 1 | 2 | 2 | 19.18 | 18.7 | 0 | | | | | |
| 26 | 3 | 4 | 14.44 | 13.9 | 2 | 3 | 20.4 | 15.35 | 14.9 | 1 | 3 | 21.3 | 16.26 | 15.8 | 1 | 3 | 22.2 | 17.17 | 16.7 | 0 | 3 | 1 | 18.7 | 18.2 | 5 | 3 | 0 | 18.54 | 18.0 | 4 | | | | | |
| 27 | 3 | 19.3 | 14.25 | 13.7 | 0 | 21.3 | 2 | 15.16 | 14.6 | 0 | 22.3 | 2 | 16.6 | 16.1 | 5 | 23.3 | 1 | 16.57 | 16.0 | 4 | 24.3 | 0 | 17.47 | 16.9 | 2 | 5 | 25.3 | 23.9 | 15.37 | 14.8 | 7 | | | | |
| 28 | 20.4 | 2 | 14.6 | 14.1 | 4 | 4 | 1 | 14.56 | 14.0 | 3 | 1 | 15.47 | 14.9 | 2 | 7 | 3 | 0 | 16.37 | 15.8 | 0 | 7 | 3 | 22.9 | 17.27 | 16.9 | 6 | 3 | 8 | 15.17 | 14.6 | 5 | | | | |
| 29 | 4 | 1 | 13.46 | 12.9 | 7 | 4 | 0 | 14.37 | 13.8 | 6 | 4 | 20.9 | 15.27 | 14.8 | 6 | 4 | 21.8 | 16.17 | 15.7 | 5 | 3 | 5 | 17.6 | 17.1 | 6 | 4 | 3 | 7 | 15.56 | 15.0 | 4 | | | | |
| 30 | 4 | 0 | 13.27 | 12.8 | 5 | 4 | 19.9 | 14.17 | 13.6 | 4 | 4 | 8 | 15.7 | 15.2 | 4 | 4 | 7 | 15.56 | 15.0 | 4 | 3 | 3 | 6 | 16.46 | 15.9 | 2 | 2 | 3 | 5 | 17.35 | 16.8 | 2 | | | |
| 31 | 5 | 18.9 | 13.7 | 13.2 | 4 | 3 | 4 | 8 | 13.57 | 13.0 | 3 | 4 | 7 | 14.46 | 13.9 | 2 | 4 | 6 | 15.36 | 14.8 | 0 | 1 | 4 | 5 | 16.25 | 15.7 | 1 | 3 | 23.4 | 17.14 | 16.6 | 0 | | | |
| 32 | 5 | 8 | 12.47 | 11.9 | 1 | 21.5 | 7 | 13.37 | 12.8 | 0 | 22.4 | 6 | 14.26 | 13.8 | 0 | 23.4 | 5 | 15.15 | 14.7 | 16.9 | 24.4 | 22.4 | 16.4 | 15.9 | 6 | 17.9 | 25.3 | 3 | 16.52 | 16.0 | 15.5 | | | | |
| 33 | 20.5 | 7 | 12.27 | 11.7 | 13.9 | 5 | 6 | 13.17 | 12.6 | 14.9 | 5 | 5 | 14.5 | 14.0 | 5 | 4 | 21.3 | 14.54 | 14.0 | 3 | 7 | 4 | 2 | 15.42 | 14.9 | 2 | 7 | 4 | 1 | 16.31 | 15.8 | 6 | | | |
| 34 | 6 | 6 | 12.7 | 12.2 | 4 | 7 | 5 | 12.56 | 12.0 | 3 | 7 | 5 | 20.4 | 13.44 | 12.9 | 6 | 5 | 2 | 14.33 | 13.8 | 0 | 5 | 4 | 1 | 15.21 | 14.8 | 5 | 4 | 0 | 16.9 | 16.4 | 4 | | | |
| 35 | 6 | 5 | 11.47 | 10.9 | 0 | 5 | 6 | 19.3 | 12.35 | 11.9 | 5 | 5 | 2 | 13.23 | 12.7 | 4 | 5 | 1 | 14.11 | 13.6 | 3 | 4 | 0 | 14.59 | 14.0 | 4 | 3 | 4 | 22.5 | 15.47 | 14.9 | 2 | | | |
| 36 | 6 | 18.3 | 11.26 | 10.6 | 3 | 6 | 2 | 12.14 | 11.6 | 3 | 5 | 1 | 13.2 | 12.7 | 2 | 5 | 20.9 | 13.50 | 13.0 | 2 | 1 | 5 | 21.5 | 14.37 | 13.8 | 1 | 1 | 4 | 7 | 15.25 | 14.7 | 0 | | | |
| 37 | 20.7 | 2 | 11.5 | 11.0 | 3 | 1 | 21.6 | 1 | 11.53 | 11.0 | 1 | 22.6 | 0 | 12.40 | 11.9 | 0 | 23.5 | 8 | 13.28 | 12.8 | 15.9 | 24.5 | 7 | 14.15 | 13.7 | 16.9 | 25.4 | 5 | 15.2 | 14.7 | 5 | | | | |
| 38 | 7 | 1 | 10.44 | 9.9 | 12.9 | 7 | 0 | 11.31 | 10.7 | 13.8 | 6 | 19.9 | 12.19 | 11.6 | 14.8 | 6 | 7 | 13.5 | 13.0 | 4 | 7 | 5 | 6 | 13.52 | 13.0 | 3 | 7 | 4 | 4 | 14.39 | 13.8 | 6 | | | |
| 39 | 7 | 0 | 10.23 | 9.7 | 7 | 7 | 18.8 | 11.10 | 10.6 | 3 | 6 | 6 | 8 | 11.56 | 11.0 | 2 | 6 | 5 | 12.43 | 11.9 | 0 | 5 | 5 | 5 | 13.29 | 12.8 | 4 | 5 | 2 | 14.16 | 13.6 | 4 | | | |
| 40 | 8 | 17.8 | 10.1 | 9.6 | 1 | 4 | 7 | 7 | 10.48 | 9.9 | 4 | 7 | 6 | 11.34 | 10.7 | 3 | 6 | 20.4 | 12.20 | 11.6 | 2 | 5 | 21.3 | 13.6 | 13.1 | 4 | 2 | 5 | 1 | 13.52 | 13.0 | 1 | | | |
| 41 | 20.8 | 7 | 9.39 | 8.8 | 2 | 8 | 6 | 10.25 | 9.7 | 1 | 7 | 5 | 11.11 | 10.6 | 0 | 23.6 | 2 | 11.57 | 11.0 | 1 | 0 | 6 | 2 | 12.43 | 11.9 | 0 | 15.9 | 5 | 21.9 | 13.25 | 12.8 | 16.9 | | | |
| 42 | 9 | 6 | 9.17 | 8.6 | 21.9 | 21.8 | 4 | 10.2 | 9.7 | 0 | 12.8 | 22.7 | 19.4 | 10.48 | 9.9 | 13.8 | 7 | 1 | 11.34 | 10.7 | 14.7 | 24.6 | 0 | 12.19 | 11.5 | 7 | 25.5 | 8 | 13.4 | 12.9 | 6 | | | | |
| 43 | 9 | 5 | 8.54 | 8.0 | 6 | 8 | 18.3 | 9.39 | 8.8 | 6 | 8 | 2 | 10.24 | 9.7 | 4 | 5 | 7 | 19.9 | 11.10 | 10.6 | 2 | 5 | 6 | 20.9 | 11.55 | 11.0 | 1 | 4 | 5 | 6 | 12.39 | 11.9 | 3 | | |
| 44 | 9 | 17.4 | 8.31 | 7.8 | 3 | 9 | 2 | 9.16 | 8.6 | 1 | 3 | 8 | 1 | 10.1 | 9.6 | 2 | 7 | 8 | 10.45 | 9.9 | 2 | 6 | 7 | 11.30 | 10.7 | 10.1 | 6 | 6 | 5 | 12.14 | 11.6 | 0 | | | |
| 45 | 21.0 | 3 | 8.8 | 8.3 | 0 | 9 | 1 | 8.52 | 8.0 | 7.6 | 0 | 8 | 18.9 | 9.36 | 8.8 | 23.8 | 7 | 10.21 | 9.6 | 13.9 | 7 | 5 | 11.5 | 11.0 | 11.4 | 6 | 21.4 | 11.48 | 10.9 | 15.7 | 15.2 | | | | |
| 46 | 0 | 1 | 7.44 | 6.9 | 3 | 10.7 | 9 | 17.9 | 8.28 | 1 | 11.7 | 22.9 | 8 | 9.12 | 8.6 | 6 | 8 | 6 | 9.55 | 9.0 | 8.8 | 6 | 7 | 4 | 10.39 | 9.8 | 5 | 6 | 3 | 11.22 | 10.7 | 4 | | | |
| 47 | 0 | 0 | 7.20 | 6.7 | 4 | 22.0 | 8 | 8.3 | 7.8 | 6.6 | 4 | 9 | 6 | 8.47 | 7.9 | 3 | 8 | 19.4 | 9.30 | 8.8 | 2 | 22.7 | 2 | 10.13 | 9.6 | 1 | 2 | 25.6 | 1 | 10.56 | 10.0 | 1 | | | |
| 48 | 1 | 16.8 | 6.55 | 6.0 | 3 | 1 | 0 | 6 | 7.38 | 6.8 | 1 | 0 | 9 | 4 | 8.21 | 7.7 | 0 | 8 | 2 | 9.4 | 8.9 | 7.7 | 12.9 | 7 | 0 | 9.46 | 8.9 | 5 | 13.9 | 7 | 10.29 | 9.7 | 14.8 | | |
| 49 | 21.1 | 7 | 6.30 | 5.8 | 9.7 | 1 | 5 | 7.12 | 6.6 | 10.7 | 9 | 3 | 7.55 | 7.0 | 11.7 | 23.9 | 1 | 8.37 | 7.8 | 1 | 6 | 8 | 19.5 | 9.19 | 8.6 | 0 | 6 | 7 | 7 | 10.2 | 9.7 | 5 | | | |
| 50 | 1 | 5 | 6.4 | 5.9 | 4 | 1 | 17.3 | 6.46 | 5.9 | 1 | 4 | 23.0 | 1 | 7.28 | 6.8 | 3 | 9 | 18.9 | 8.10 | 7.6 | 3 | 8 | 7 | 8.52 | 8.0 | 7.4 | 2 | 7 | 5 | 9.11 | 8.6 | 2 | | | |
| 51 | 2 | 4 | 5.37 | 4.8 | 0 | 1 | 1 | 6.19 | 5.6 | 4.5 | 0 | 0 | 17.9 | 7.1 | 2 | 10.9 | 9 | 7 | 7.42 | 6.9 | 0 | 11.9 | 8 | 6 | 8.24 | 7.7 | 6.8 | 12.5 | 7 | 3 | 9.3 | 8.8 | 13.8 | | |
| 52 | 2 | 16.3 | 5.10 | 4.6 | 1 | 8.6 | 22.2 | 0 | 5.52 | 5.0 | 9.6 | 0 | 8 | 6.33 | 5.8 | 5 | 9 | 6 | 7.14 | 6.6 | 5.4 | 24.8 | 4 | 7.55 | 7.0 | 2 | 4 | 25.8 | 1 | 8.3 | 7.8 | 4 | | | |
| 53 | 21.3 | 2 | 4.43 | 3.9 | 2.5 | 1 | 2 | 16.9 | 5.24 | 4.7 | 1 | 1 | 7 | 6.4 | 5.9 | 1 | 24.0 | 4 | 6.45 | 5.9 | 4.8 | 0 | 9 | 2 | 7.25 | 6.7 | 6.1 | 11.4 | 8 | 1 | 8.5 | 8.0 | 11.9 | | |
| 54 | 3 | 0 | 4.15 | 3.6 | 1.9 | 7.7 | 2 | 7 | 4.55 | 4.0 | 8.6 | 23.1 | 5 | 5.35 | 4.8 | 9.6 | 0 | 2 | 6.15 | 5.6 | 4.5 | 0 | 9 | 0 | 6.55 | 6.0 | 5.4 | 11.4 | 7 | 7 | 8.56 | 8.0 | 4 | | |
| 55 | 4 | 15.8 | 3.47 | 2.9 | 2 | 3 | 5 | 4.26 | 3.7 | 1.9 | 1 | 1 | 3 | 5.5 | 5.0 | 2.7 | 1 | 0 | 5.44 | 4.9 | 3.4 | 0 | 8 | 15.8 | 6.24 | 5.7 | 2 | 0 | 8 | 5 | 7.2 | 6.7 | 11.8 | | |
| 56 | 5 | 6 | 3.17 | 2.6 | 0.5 | 6.6 | 3 | 3 | 3.56 | 3.0 | 2 | 2 | 1 | 4.35 | 3.8 | 0 | 5.5 | 1 | 17.8 | 5.13 | 4.6 | 9.4 | 9 | 6 | 5.52 | 5.0 | 4.4 | 10.5 | 8 | 2 | 6.30 | 5.8 | 3 | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 9 41 23 } Ω 23° ARC 145° 20'.6 | | | | | | H. M. S. 9 45 16 } Ω 24° 146° 19'.0 | | | | | | H. M. S. 9 49 8 } Ω 25° 147° 17'.1 | | | | | | H. M. S. 9 53 0 } Ω 26° 148° 15'.1 | | | | | | H. M. S. 9 56 52 } Ω 27° 149° 12'.9 | | | | | | H. M. S. 10 0 42 } Ω 28° 150° 10'.6 | | | | | | | |
|--|----------|---------|----------|----------|------------|--|---------|----------|----------|------------|----------|---|----------|----------|------------|----------|---------|---|----------|------------|----------|---------|----------|--|------------|----------|---------|----------|----------|--|----------|---------|----------|----------|------------|------|------|
| 11 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | α | β | γ | δ | ϵ | | |
| 22 | 25.2 | 24.5 | 20 | 19 | 19.6 | 20.5 | 26.2 | 25.5 | 21 | 11 | 20.5 | 21.4 | 27.2 | 26.4 | 22 | 2 | 21.4 | 22.4 | 28.2 | 27.3 | 22 | 53 | 22.3 | 23.3 | 29.2 | 28.2 | 23 | 44 | 23.2 | 24.3 | 0.2 | 29.1 | 24 | 35 | 24.0 | 25.2 | |
| 23 | 2 | 4 | 19 | 59 | 3 | 4 | 2 | 3 | 20 | 50 | 2 | 3 | 2 | 2 | 21 | 41 | 1 | 2 | 2 | 22 | 32 | 0 | 2 | 2 | 2 | 1 | 23 | 23 | 22.9 | 2 | 2 | 0 | 24 | 13 | 23.7 | 1 | |
| 24 | 2 | 3 | 19 | 39 | 0 | 2 | 2 | 2 | 20 | 30 | 19.9 | 1 | 2 | 1 | 21 | 20 | 20.8 | 1 | 2 | 0 | 22 | 11 | 21.7 | 0 | 2 | 2 | 27.9 | 23 | 2 | 5 | 0 | 2 | 28.8 | 23 | 52 | 4 | 24.9 |
| 25 | 2 | 2 | 19 | 18 | 18.7 | 0 | 2 | 1 | 20 | 9 | 6 | 0 | 2 | 0 | 21 | 0 | 5 | 21.9 | 2 | 26.9 | 21 | 50 | 4 | 22.8 | 2 | 8 | 22 | 40 | 2 | 23.8 | 2 | 7 | 23 | 30 | 1 | 8 | |
| 26 | 3 | 0 | 18 | 58 | 4 | 19.9 | 2 | 24.9 | 19 | 48 | 3 | 20.8 | 2 | 25.9 | 20 | 38 | 2 | 8 | 2 | 8 | 21 | 29 | 0 | 7 | 2 | 7 | 22 | 19 | 21.9 | 7 | 2 | 5 | 23 | 9 | 22.8 | 6 | |
| 27 | 25.3 | 23.9 | 18 | 37 | 1 | 7 | 26.3 | 8 | 19 | 28 | 0 | 6 | 27.2 | 7 | 20 | 17 | 19.8 | 6 | 28.2 | 6 | 21 | 7 | 20.7 | 5 | 29.2 | 5 | 21 | 57 | 6 | 5 | 0.2 | 4 | 22 | 47 | 4 | 5 | |
| 28 | 3 | 8 | 18 | 17 | 17.8 | 5 | 3 | 7 | 19 | 7 | 18.6 | 5 | 2 | 6 | 19 | 56 | 5 | 4 | 2 | 5 | 20 | 46 | 4 | 4 | 2 | 2 | 27.4 | 21 | 35 | 2 | 4 | 2 | 28.3 | 22 | 25 | 1 | 3 |
| 29 | 3 | 7 | 17 | 56 | 4 | 4 | 3 | 5 | 18 | 46 | 3 | 3 | 2 | 4 | 19 | 35 | 2 | 2 | 2 | 26.3 | 20 | 24 | 0 | 2 | 2 | 2 | 21 | 13 | 20.9 | 2 | 2 | 1 | 22 | 2 | 21.8 | 1 | |
| 30 | 3 | 5 | 17 | 35 | 1 | 2 | 3 | 24.4 | 18 | 24 | 0 | 1 | 3 | 25.3 | 19 | 13 | 18.8 | 1 | 2 | 2 | 20 | 2 | 19.7 | 0 | 2 | 2 | 1 | 20 | 51 | 5 | 0 | 2 | 0 | 21 | 40 | 4 | 23.9 |
| 31 | 3 | 23.4 | 17 | 14 | 16.8 | 0 | 3 | 3 | 18 | 3 | 17.6 | 19.9 | 3 | 2 | 18 | 51 | 5 | 20.9 | 2 | 1 | 19 | 40 | 3 | 21.8 | 2 | 26.9 | 20 | 29 | 2 | 22.8 | 2 | 27.8 | 21 | 17 | 1 | 8 | |
| 32 | 25.3 | 3 | 16 | 52 | 4 | 18.8 | 26.3 | 1 | 17 | 41 | 3 | 8 | 27.3 | 0 | 18 | 29 | 1 | 7 | 28.2 | 25.9 | 19 | 18 | 0 | 6 | 29.2 | 8 | 20 | 6 | 19.8 | 6 | 0.2 | 6 | 20 | 54 | 20.7 | 6 | |
| 33 | 4 | 1 | 16 | 31 | 1 | 6 | 3 | 0 | 17 | 19 | 16.9 | 6 | 3 | 24.9 | 18 | 7 | 17.8 | 5 | 2 | 8 | 18 | 55 | 18.6 | 5 | 2 | 6 | 19 | 43 | 5 | 4 | 2 | 5 | 20 | 31 | 3 | 4 | |
| 34 | 4 | 0 | 16 | 9 | 15.7 | 4 | 3 | 23.9 | 16 | 57 | 5 | 4 | 3 | 7 | 17 | 45 | 4 | 3 | 2 | 6 | 18 | 32 | 2 | 3 | 2 | 5 | 19 | 20 | 1 | 2 | 2 | 3 | 20 | 8 | 0 | 2 | |
| 35 | 4 | 22.8 | 15 | 47 | 3 | 2 | 4 | 7 | 16 | 35 | 1 | 2 | 3 | 6 | 17 | 22 | 0 | 1 | 3 | 4 | 18 | 9 | 17.8 | 1 | 2 | 2 | 26.3 | 18 | 57 | 18.7 | 0 | 2 | 2 | 19 | 44 | 19.6 | 0 |
| 36 | 4 | 7 | 15 | 25 | 14.9 | 0 | 4 | 6 | 16 | 12 | 15.7 | 0 | 3 | 4 | 16 | 59 | 16.6 | 19.9 | 3 | 25.3 | 17 | 46 | 4 | 20.9 | 2 | 1 | 18 | 33 | 3 | 21.8 | 2 | 0 | 19 | 20 | 2 | 22.8 | |
| 37 | 25.4 | 5 | 15 | 2 | 5 | 17.8 | 26.4 | 4 | 15 | 49 | 3 | 18.8 | 27.3 | 3 | 16 | 36 | 2 | 7 | 28.3 | 1 | 17 | 22 | 0 | 7 | 29.2 | 0 | 18 | 9 | 17.9 | 6 | 0.2 | 26.8 | 18 | 56 | 18.8 | 6 | |
| 38 | 4 | 4 | 14 | 39 | 1 | 6 | 4 | 23.2 | 15 | 26 | 14.9 | 5 | 3 | 1 | 16 | 12 | 15.8 | 5 | 3 | 0 | 16 | 58 | 16.6 | 4 | 2 | 2 | 25.9 | 17 | 45 | 5 | 4 | 2 | 6 | 18 | 31 | 3 | 4 |
| 39 | 5 | 2 | 14 | 16 | 13.7 | 4 | 4 | 1 | 15 | 2 | 5 | 3 | 3 | 23.9 | 15 | 48 | 4 | 3 | 3 | 24.8 | 16 | 34 | 2 | 2 | 2 | 7 | 17 | 20 | 1 | 2 | 2 | 5 | 18 | 6 | 17.9 | 1 | |
| 40 | 5 | 1 | 13 | 52 | 3 | 1 | 4 | 0 | 14 | 38 | 1 | 1 | 4 | 8 | 15 | 24 | 14.9 | 0 | 3 | 6 | 16 | 9 | 15.8 | 0 | 2 | 5 | 16 | 55 | 16.7 | 0 | 2 | 3 | 17 | 40 | 5 | 21.9 | |
| 41 | 5 | 21.9 | 13 | 28 | 12.8 | 16.9 | 4 | 22.9 | 14 | 14 | 13.7 | 17.8 | 4 | 6 | 14 | 59 | 5 | 18.8 | 3 | 4 | 15 | 44 | 3 | 19.7 | 2 | 3 | 16 | 29 | 3 | 20.7 | 2 | 1 | 17 | 14 | 0 | 6 | |
| 42 | 25.5 | 8 | 13 | 4 | 4 | 6 | 26.5 | 7 | 13 | 49 | 2 | 6 | 27.4 | 4 | 14 | 34 | 0 | 5 | 28.3 | 2 | 15 | 19 | 14.9 | 5 | 29.2 | 2 | 16 | 3 | 15.8 | 4 | 0.2 | 25.9 | 16 | 48 | 16.5 | 4 | |
| 43 | 5 | 6 | 12 | 39 | 11.9 | 3 | 5 | 5 | 13 | 24 | 12.7 | 3 | 4 | 23.2 | 14 | 8 | 13.6 | 2 | 3 | 1 | 14 | 53 | 4 | 2 | 2 | 0 | 15 | 37 | 3 | 1 | 2 | 7 | 16 | 21 | 0 | 1 | |
| 44 | 6 | 5 | 12 | 14 | 4 | 0 | 5 | 3 | 12 | 58 | 3 | 0 | 4 | 1 | 13 | 42 | 1 | 17.9 | 3 | 23.9 | 14 | 26 | 13.9 | 18.9 | 2 | 24.8 | 15 | 10 | 14.8 | 19.9 | 2 | 6 | 15 | 54 | 15.5 | 20.8 | |
| 45 | 6 | 21.4 | 11 | 48 | 10.9 | 15.7 | 5 | 2 | 12 | 32 | 11.8 | 16.7 | 4 | 0 | 13 | 16 | 12.6 | 6 | 3 | 8 | 14 | 0 | 4 | 6 | 2 | 6 | 14 | 43 | 3 | 6 | 2 | 4 | 15 | 27 | 0 | 6 | |
| 46 | 6 | 3 | 11 | 22 | 4 | 4 | 5 | 0 | 12 | 6 | 3 | 4 | 4 | 22.8 | 12 | 49 | 1 | 3 | 3 | 6 | 13 | 32 | 12.9 | 3 | 2 | 4 | 14 | 15 | 13.7 | 3 | 2 | 2 | 14 | 58 | 14.5 | 3 | |
| 47 | 25.6 | 1 | 10 | 56 | 9.9 | 1 | 26.5 | 21.9 | 11 | 39 | 10.7 | 1 | 27.4 | 6 | 12 | 22 | 11.5 | 0 | 28.3 | 4 | 13 | 4 | 3 | 0 | 29.3 | 2 | 13 | 47 | 1 | 0 | 0.2 | 0 | 14 | 30 | 13.9 | 0 | |
| 48 | 7 | 20.9 | 10 | 29 | 3 | 14.8 | 6 | 7 | 11 | 12 | 2 | 15.8 | 4 | 5 | 11 | 54 | 0 | 16.7 | 4 | 2 | 12 | 36 | 11.8 | 17.7 | 3 | 0 | 13 | 18 | 12.5 | 18.7 | 2 | 24.8 | 14 | 0 | 3 | 19.7 | |
| 49 | 7 | 7 | 10 | 2 | 8.8 | 5 | 6 | 5 | 10 | 44 | 9.6 | 5 | 5 | 3 | 11 | 25 | 10.4 | 4 | 4 | 0 | 12 | 7 | 2 | 4 | 3 | 23.8 | 12 | 49 | 0 | 4 | 2 | 6 | 13 | 30 | 12.8 | 4 | |
| 50 | 7 | 5 | 9 | 33 | 2 | 2 | 6 | 3 | 10 | 15 | 0 | 1 | 5 | 1 | 10 | 56 | 9.8 | 1 | 4 | 22.8 | 11 | 38 | 10.6 | 0 | 3 | 6 | 12 | 19 | 11.4 | 0 | 2 | 4 | 13 | 0 | 2 | 0 | |
| 51 | 7 | 3 | 9 | 5 | 7.6 | 13.8 | 6 | 1 | 9 | 46 | 8.4 | 14.7 | 5 | 21.9 | 10 | 27 | 2 | 15.7 | 4 | 6 | 11 | 7 | 0 | 16.6 | 3 | 4 | 11 | 48 | 10.8 | 17.6 | 2 | 2 | 12 | 28 | 11.5 | 18.6 | |
| 52 | 25.8 | 1 | 8 | 35 | 0 | 4 | 26.6 | 20.9 | 9 | 16 | 7.7 | 3 | 27.5 | 7 | 9 | 56 | 8.5 | 3 | 28.4 | 4 | 10 | 36 | 9.3 | 2 | 29.3 | 2 | 11 | 16 | 1 | 2 | 0.2 | 0 | 11 | 56 | 10.8 | 2 | |
| 53 | 8 | 19.9 | 8 | 5 | 6.3 | 12.9 | 7 | 7 | 8 | 45 | 1 | 13.9 | 5 | 5 | 9 | 25 | 7.8 | 14.8 | 4 | 2 | 10 | 5 | 8.6 | 15.8 | 3 | 0 | 10 | 44 | 9.4 | 16.8 | 2 | 23.8 | 11 | 23 | 1 | 17.7 | |
| 54 | 8 | 7 | 7 | 34 | 5.6 | 4 | 7 | 5 | 8 | 13 | 6.4 | 4 | 5 | 3 | 8 | 53 | 1 | 3 | 4 | 0 | 9 | 32 | 7.9 | 3 | 3 | 22.8 | 10 | 11 | 8.7 | 3 | 2 | 5 | 10 | 50 | 9.4 | 2 | |
| 55 | 8 | 5 | 7 | 2 | 4.9 | 11.9 | 7 | 3 | 7 | 41 | 5.7 | 12.9 | 6 | 0 | 8 | 20 | 6.4 | 13.8 | 4 | 21.7 | 8 | 59 | 2 | 14.8 | 3 | 5 | 9 | 37 | 7.9 | 15.8 | 2 | 2 | 10 | 15 | 8.7 | 16.7 | |
| 56 | 9 | 2 | 6 | 30 | 2 | 3 | 7 | 1 | 7 | 8 | 0 | 3 | 6 | 20.8 | 7 | 46 | 5.6 | 2 | 4 | 5 | 8 | 24 | 6.4 | 2 | 3 | 3 | 9 | 2 | 1 | 2 | 2 | 0 | 9 | 40 | 7.9 | 1 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 10 4 33 } Ω ARC 151° 8'.1 } 29° | | | | | | H. M. S. 10 8 22 } π 0° 152° 5'.5 } | | | | | | H. M. S. 10 12 11 } π 1° 153° 2'.8 } | | | | | | H. M. S. 10 16 0 } π 2° 153° 59'.9 } | | | | | | H. M. S. 10 19 47 } π 3° 154° 56'.8 } | | | | | | H. M. S. 10 23 35 } π 4° 155° 53'.7 } | | | | | |
|--|-----|------|-------|------|------|---|------|-------|------|------|-----|--|-------|------|------|-----|------|--|------|------|------|------|-------|---|------|------|------|-------|------|---|------|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | △ | μ | μ | f | ν | △ | μ | μ | f | ν | △ | μ | μ | f | ν | △ | μ | μ | f | ν | △ | μ | μ | f | ν | △ | μ | μ | f | ν | | | | | |
| 22 | 1.1 | 0.0 | 25 25 | 24.9 | 26.2 | 2.1 | 1.0 | 26 16 | 25.8 | 27.1 | 3.1 | 1.9 | 27 6 | 26.6 | 28.1 | 4.1 | 2.8 | 27 56 | 27.5 | 29.0 | 5.1 | 3.7 | 28 46 | 28.4 | 29.9 | 6.0 | 4.6 | 29 36 | 29.2 | 0.9 | | | | | |
| 23 | 1 | 29.9 | 25 4 | 6 | 0 | 1 | 0.8 | 25 54 | 5 | 0 | 1 | 7 26 | 44 | 3 | 27.9 | 1 | 6 27 | 34 | 2 | 28.8 | 1 | 5 28 | 24 | 1 | 8 | 0 | 4 29 | 14 | 28.9 | 7 | | | | | |
| 24 | 2 | 7 24 | 42 | 3 | 25.9 | 1 | 6 25 | 32 | 1 | 26.8 | 1 | 5 26 | 22 | 0 | 8 | 1 | 5 27 | 12 | 26.9 | 7 | 0 | 3 28 | 1 | 27.7 | 6 | 0 | 2 28 | 51 | 6 | 6 | | | | | |
| 25 | 1 | 6 24 | 20 | 0 | 7 | 1 | 5 25 | 10 | 24.8 | 7 | 1 | 4 26 | 0 | 25.7 | 6 | 1 | 3 26 | 49 | 5 | 5 | 0 | 2 27 | 38 | 4 | 5 | 0 | 1 28 | 28 | 3 | 4 | | | | | |
| 26 | 1 | 4 23 | 58 | 23.6 | 6 | 1 | 3 24 | 48 | 5 | 5 | 3.1 | 2 25 | 37 | 3 | 4 | 4.0 | 1 26 | 26 | 2 | 3 | 5.0 | 0 27 | 15 | 1 | 29.3 | 0 | 3.9 | 28 | 4 | 27.9 | 3 | | | | |
| 27 | 1.1 | 29.3 | 23 36 | 3 | 4 | 2.1 | 2 24 | 25 | 2 | 4 | 1 | 1 25 | 15 | 0 | 27.3 | 9 | 1.9 | 26 4 | 25.9 | 2 | 0 | 2.8 | 26 52 | 26.8 | 1 | 0 | 7 27 | 41 | 6 | 1 | | | | | |
| 28 | 1 | 1 23 | 14 | 0 | 2 | 1 | 0 24 | 3 | 23.8 | 2 | 0 | 0.9 | 24 52 | 24.7 | 1 | 0 | 8 25 | 40 | 5 | 0 | 0 | 6 26 | 29 | 4 | 0 | 5.9 | 5 27 | 17 | 3 | 29.9 | | | | | |
| 29 | 1 | 0 22 | 51 | 22.6 | 1 | 1 | 29.9 | 23 40 | 5 | 0 | 0 | 7 24 | 29 | 3 | 0 | 0 | 6 25 | 17 | 2 | 27.9 | 0 | 5 26 | 5 | 1 | 28.8 | 9 | 3 26 | 53 | 26.9 | 8 | | | | | |
| 30 | 1 | 28.8 | 22 28 | 3 | 24.9 | 1 | 7 23 | 17 | 1 | 25.8 | 3.0 | 6 24 | 5 | 0 | 26.8 | 4.0 | 4 24 | 53 | 24.8 | 7 | 4.9 | 3 25 | 41 | 25.7 | 6 | 9 | 2 26 | 29 | 6 | 6 | | | | | |
| 31 | 1 | 7 22 | 5 | 21.9 | 7 | 1 | 5 22 | 54 | 22.8 | 7 | 0 | 4 23 | 42 | 23.6 | 6 | 0 | 3 24 | 29 | 5 | 5 | 9 | 1 25 | 17 | 3 | 5 | 9 | 0 26 | 5 | 2 | 4 | | | | | |
| 32 | 1.1 | 5 21 | 42 | 6 | 5 | 2.1 | 4 22 | 30 | 4 | 5 | 0 | 2 23 | 18 | 3 | 4 | 0 | 1 24 | 5 | 1 | 3 | 9 | 1.9 | 24 53 | 0 | 3 | 9 | 2.8 | 25 40 | 25.8 | 2 | | | | | |
| 33 | 1 | 4 21 | 19 | 2 | 3 | 0 | 2 22 | 6 | 0 | 3 | 0 | 1 22 | 54 | 22.9 | 2 | 3.9 | 0.9 | 23 41 | 23.8 | 1 | 9 | 8 24 | 28 | 24.6 | 1 | 5.8 | 6 25 | 15 | 5 | 0 | | | | | |
| 34 | 1 | 2 20 | 55 | 20.8 | 1 | 0 | 0 21 | 42 | 21.7 | 1 | 3.0 | 29.9 | 22 29 | 5 | 0 | 9 | 7 23 | 16 | 4 | 26.9 | 9 | 6 24 | 3 | 2 | 27.9 | 8 | 4 24 | 50 | 1 | 28.9 | | | | | |
| 35 | 1 | 0 20 | 31 | 4 | 23.9 | 0 | 28.9 | 21 18 | 3 | 24.9 | 0 | 7 22 | 5 | 1 | 25.8 | 9 | 5 22 | 51 | 0 | 7 | 4.9 | 4 23 | 38 | 23.8 | 7 | 8 | 2 24 | 24 | 24.7 | 7 | | | | | |
| 36 | 1 | 27.8 | 20 6 | 0 | 7 | 0 | 7 20 | 53 | 20.9 | 7 | 0 | 5 21 | 40 | 21.7 | 6 | 9 | 3 22 | 26 | 22.6 | 5 | 8 | 2 23 | 12 | 4 | 5 | 8 | 0 23 | 58 | 3 | 5 | | | | | |
| 37 | 1.1 | 7 19 | 42 | 19.6 | 5 | 2.0 | 6 20 | 28 | 5 | 5 | 0 | 4 21 | 14 | 3 | 4 | 9 | 1 22 | 0 | 2 | 3 | 8 | 0 22 | 46 | 0 | 3 | 8 | 1.8 | 23 32 | 23.9 | 3 | | | | | |
| 38 | 1 | 5 19 | 17 | 2 | 3 | 0 | 4 20 | 3 | 0 | 3 | 2.9 | 2 20 | 48 | 20.9 | 2 | 3.9 | 0 21 | 34 | 21.7 | 1 | 8 | 0.8 | 22 20 | 22.6 | 1 | 5.7 | 6 23 | 5 | 4 | 1 | | | | | |
| 39 | 1 | 3 18 | 51 | 18.7 | 1 | 0 | 2 19 | 37 | 19.6 | 0 | 9 | 0 20 | 22 | 4 | 0 | 9 | 29.8 | 21 8 | 3 | 25.9 | 8 | 6 21 | 53 | 1 | 26.9 | 7 | 4 22 | 38 | 22.9 | 27.9 | | | | | |
| 40 | 1 | 1 18 | 26 | 3 | 22.9 | 0 | 0 19 | 11 | 1 | 23.8 | 9 | 28.8 | 19 56 | 0 | 24.8 | 8 | 6 20 | 41 | 20.8 | 7 | 4.8 | 4 21 | 26 | 21.6 | 7 | 7 | 2 22 | 11 | 5 | 6 | | | | | |
| 41 | 1 | 26.9 | 17 59 | 17.8 | 6 | 0 | 27.8 | 18 44 | 18.7 | 6 | 9 | 6 19 | 29 | 19.6 | 5 | 8 | 4 20 | 13 | 3 | 5 | 7 | 2 20 | 58 | 2 | 4 | 7 | 0 21 | 42 | 0 | 4 | | | | | |
| 42 | 1.1 | 8 17 | 33 | 3 | 3 | 2.0 | 6 18 | 17 | 2 | 3 | 9 | 4 19 | 1 | 1 | 3 | 8 | 2 19 | 46 | 19.8 | 2 | 7 | 0 20 | 30 | 20.7 | 2 | 6 | 0.8 | 21 14 | 21.5 | 2 | | | | | |
| 43 | 1 | 6 17 | 5 | 16.8 | 1 | 0 | 4 17 | 50 | 17.7 | 0 | 2.9 | 2 18 | 34 | 18.6 | 0 | 3.8 | 0 19 | 17 | 3 | 0 | 7 | 29.8 | 20 1 | 2 | 25.9 | 5.6 | 6 20 | 45 | 0 | 26.9 | | | | | |
| 44 | 1 | 4 16 | 38 | 3 | 21.8 | 0 | 2 17 | 22 | 1 | 22.7 | 9 | 0 18 | 5 | 1 | 23.7 | 8 | 28.8 | 18 48 | 18.8 | 24.7 | 7 | 6 19 | 32 | 19.6 | 7 | 6 | 4 20 | 15 | 20.5 | 6 | | | | | |
| 45 | 1 | 2 16 | 10 | 15.8 | 5 | 0 | 0 16 | 53 | 16.6 | 5 | 9 | 27.8 | 17 36 | 17.5 | 5 | 8 | 6 18 | 19 | 3 | 5 | 4.7 | 4 19 | 2 | 1 | 4 | 6 | 2 19 | 45 | 19.9 | 3 | | | | | |
| 46 | 1 | 0 15 | 41 | 3 | 2 | 0 | 26.8 | 16 24 | 1 | 2 | 9 | 6 17 | 7 | 0 | 2 | 8 | 4 17 | 49 | 17.7 | 2 | 6 | 2 18 | 32 | 18.5 | 1 | 5 | 29.9 | 19 14 | 3 | 1 | | | | | |
| 47 | 1.1 | 25.7 | 15 12 | 14.7 | 20.9 | 2.0 | 6 15 | 54 | 15.5 | 21.9 | 8 | 3 16 | 37 | 16.4 | 22.9 | 7 | 2 17 | 19 | 1 | 23.9 | 6 | 0 18 | 1 | 0 | 24.8 | 5 | 7 18 | 43 | 18.8 | 25.8 | | | | | |
| 48 | 1 | 5 14 | 42 | 1 | 6 | 0 | 4 15 | 23 | 14.9 | 6 | 2.8 | 1 16 | 6 | 15.8 | 6 | 3.7 | 0 16 | 48 | 16.6 | 6 | 6 | 28.7 | 17 29 | 17.4 | 5 | 5.5 | 4 18 | 11 | 2 | 5 | | | | | |
| 49 | 1 | 3 14 | 12 | 13.6 | 3 | 0 | 2 14 | 52 | 4 | 2 | 8 | 26.8 | 15 34 | 2 | 3 | 7 | 27.7 | 16 16 | 0 | 3 | 4.6 | 5 16 | 57 | 16.8 | 2 | 5 | 1 17 | 38 | 17.6 | 1 | | | | | |
| 50 | 1 | 1 13 | 41 | 0 | 19.9 | 0 | 25.9 | 14 21 | 13.8 | 20.9 | 8 | 6 15 | 2 | 14.6 | 21.9 | 7 | 4 15 | 43 | 15.4 | 22.9 | 6 | 2 16 | 24 | 2 | 23.8 | 5 | 28.9 | 17 4 | 0 | 24.8 | | | | | |
| 51 | 0 | 24.9 | 13 9 | 12.3 | 5 | 1.9 | 7 13 | 49 | 2 | 5 | 8 | 4 14 | 29 | 13.9 | 5 | 7 | 2 15 | 10 | 14.7 | 5 | 5 | 27.9 | 15 50 | 15.5 | 4 | 4 | 6 16 | 30 | 16.3 | 4 | | | | | |
| 52 | 1.0 | 7 12 | 36 | 11.6 | 1 | 9 | 5 13 | 16 | 12.5 | 1 | 2.8 | 2 13 | 56 | 2 | 1 | 3.6 | 0 14 | 35 | 0 | 1 | 5 | 7 15 | 15 | 14.8 | 0 | 5.4 | 4 15 | 55 | 15.6 | 0 | | | | | |
| 53 | 0 | 4 12 | 3 | 10.9 | 18.7 | 9 | 3 12 | 42 | 11.8 | 19.7 | 8 | 0 13 | 21 | 12.5 | 20.7 | 6 | 26.7 | 14 | 0 | 13.3 | 21.7 | 4.5 | 4 14 | 40 | 1 | 22.6 | 4 | 1 15 | 19 | 14.9 | 23.6 | | | | |
| 54 | 0 | 2 11 | 28 | 2 | 2 | 9 | 0 12 | 8 | 0 | 2 | 8 | 25.7 | 12 46 | 11.8 | 2 | 6 | 4 13 | 25 | 12.5 | 2 | 5 | 1 14 | 3 | 13.3 | 1 | 3 | 27.8 | 14 42 | 1 | 1 | | | | | |
| 55 | 0 | 23.9 | 10 54 | 9.5 | 17.7 | 9 | 24.7 | 11 32 | 10.2 | 18.7 | 8 | 4 12 | 10 | 0 | 19.7 | 6 | 1 12 | 48 | 11.7 | 20.7 | 5 | 26.8 | 13 26 | 12.5 | 21.6 | 3 | 5 14 | 4 | 13.3 | 22.6 | | | | | |
| 56 | 0 | 6 10 | 18 | 8.7 | 1 | 8 | 4 10 | 55 | 9.4 | 1 | 7 | 1 11 | 33 | 10.2 | 1 | 5 | 25.8 | 12 10 | 10.9 | 1 | 4 | 5 12 | 47 | 11.6 | 0 | 3 | 2 13 | 25 | 12.5 | 0 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 10 23 35 } π ARC 155° 53'.7 } 4° | | | | | | H. M. S. 10 27 22 } π 5° 156° 50'.4 } 5° | | | | | | H. M. S. 10 31 8 } π 6° 157° 47'.0 } 6° | | | | | | H. M. S. 10 34 54 } π 7° 158° 43'.4 } 7° | | | | | | H. M. S. 10 38 39 } π 8° 159° 39'.8 } 8° | | | | | | H. M. S. 10 42 24 } π 9° 160° 36'.0 } 9° | | | | | | |
|---|-------------------|------------------------|-------|--------|-------------------|--|-----------|------------|---------|-------------------|------------------------|---|----------|-----------|------------------------|-------------------|------------|--|-----------|-------------------|-------------------|-----------|-----------|--|-------------------|-------------------|-----------|-----------|-----------|--|-----------|-----------|-----------|-----------|------|-----|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | | |
| Lat. | \sphericalangle | μ | μ | f | \sphericalangle | \sphericalangle | μ | f | μ | \sphericalangle | \sphericalangle | μ | f | μ | \sphericalangle | \sphericalangle | μ | f | μ | \sphericalangle | \sphericalangle | μ | f | μ | \sphericalangle | \sphericalangle | μ | f | μ | \sphericalangle | | | | | | |
| 22 | 6.0 | 4.6 | 29 36 | 29.2 | 0.9 | 7.0 | 5.5 | 0 26 | 0.1 | 1.8 | 8.0 | 6.3 | 1 15 | 1.0 | 2.7 | 9.0 | 7.2 | 2 5 | 1.8 | 3.7 | 9.9 | 8.1 | 2 55 | 2.7 | 4.6 | 10.9 | 9.0 | 3 44 | 3.6 | 5.6 | | | | | | |
| 23 | 0 | 4 | 29 14 | 28.9 | 7 | 0 | 3 0 3 | f 29.8 | 7 | 0 | 2 0 52 | 0.6 | 6 | 8.9 | 1 1 42 | 5 5 | 9 | 7.9 | 2 31 | 4 5 | 9 | 8.8 | 3 20 | 2 4 | 9 | 8.8 | 3 20 | 2 4 | 9 | 8.8 | 3 20 | 2 4 | | | | |
| 24 | 0 | 2 | 28 51 | 6 6 | 0 | 1 | 29 40 | μ 5 | 5 | 7.9 | 0 0 29 | 3 5 | 9 | 6.9 | 1 18 | 2 4 | 9 | 7 2 7 | 1 3 | 8 | 6 2 56 | 2.9 | 3 | 8 | 6 2 56 | 2.9 | 3 | 8 | 6 2 56 | 2.9 | 3 | | | | | |
| 25 | 0 | 1 | 28 28 | 3 4 | 6.9 | 4.9 | 29 17 | 1 4 | 4 | 9 | 5.8 | 0 6 | 0 3 | 9 | 7 0 54 | 0.9 | 2 | 8 | 5 1 43 | 1.7 | 2 | 8 | 4 2 32 | 6 2 | 8 | 4 2 32 | 6 2 | 8 | 4 2 32 | 6 2 | | | | | | |
| 26 | 0 | 3.9 | 28 4 | 27.9 | 3 | 9 | 7 28 53 | 28.8 | 2 | 9 | 6 29 42 | f 29.7 | 2 | 9 | 5 0 30 | 5 1 | 8 | 3 1 19 | 4 0 | 8 | 2 2 8 | 3 0 | 8 | 2 2 8 | 3 0 | 8 | 2 2 8 | 3 0 | 8 | 2 2 8 | 3 0 | | | | | |
| 27 | 0 | 7 | 27 41 | 6 1 | 9 | 6 28 29 | 5 0 | 9 | 4 29 18 | 3 0 | 8 | 3 0 6 | 2 2.9 | 9.8 | 2 0 55 | 1 3.9 | 10.7 | 0 1 43 | 1.9 | 4.9 | 10.7 | 0 1 43 | 1.9 | 4.9 | 10.7 | 0 1 43 | 1.9 | 4.9 | 10.7 | 0 1 43 | 1.9 | 4.9 | | | | |
| 28 | 5.9 | 5 | 27 17 | 3 29.9 | 9 | 4 28 6 | 1 0.9 | 9 | 3 28 54 | 0 1.8 | 8.8 | 1 29 42 | f 29.9 | 8 | 8 | 0 0 30 | 0.7 | 7 | 7.8 | 1 18 | 6 7 | 7 | 7.8 | 1 18 | 6 7 | 7 | 7.8 | 1 18 | 6 7 | 7 | 7.8 | 1 18 | 6 7 | | | |
| 29 | 9 | 3 | 26 53 | 26.9 | 8 | 9 | 2 27 41 | 27.8 | 7 | 7.8 | 1 28 29 | 28.6 | 7 | 8 | 5.9 29 17 | 5 6 | 7 | 6.8 | 0 5 | 4 6 | 7 | 6 0 53 | 2 5 | 7 | 6 0 53 | 2 5 | 7 | 6 0 53 | 2 5 | 7 | 6 0 53 | 2 5 | | | | |
| 30 | 9 | 2 | 26 29 | 6 6 | 6.8 | 0 | 27 17 | 4 6 | 6 | 8 | 4.9 28 5 | 3 5 | 7 | 7 28 52 | 1 5 | 7 | 6 29 40 | μ 0 | 4 | 6 | 4 0 28 | 0.9 | 4 | 6 | 4 0 28 | 0.9 | 4 | 6 | 4 0 28 | 0.9 | 4 | | | | | |
| 31 | 9 | 0 | 26 5 | 2 4 | 8 | 3.8 | 26 52 | 1 4 | 4 | 8 | 7 27 40 | 27.9 | 3 | 7 | 5 28 27 | 28.8 | 3 | 7 | 4 29 15 | f 29.6 | 3 | 6 | 2 0 2 | 5 2 | 6 | 2 0 2 | 5 2 | 6 | 2 0 2 | 5 2 | | | | | | |
| 32 | 9 | 2.8 | 25 40 | 25.8 | 2 | 8 | 6 26 28 | 26.7 | 2 | 8 | 5 27 15 | 6 2 | 7 | 3 28 2 | 4 1 | 9.6 | 2 28 49 | 3 1 | 10.6 | 0 29 36 | μ 1 | 0 | 10.6 | 0 29 36 | f 1 | 0 | 10.6 | 0 29 36 | f 1 | 0 | | | | | | |
| 33 | 5.8 | 6 | 25 15 | 5 0 | 8 | 4 26 2 | 3 0 | 7 | 3 26 49 | 2 0 | 8.7 | 1 27 36 | 0 1.9 | 6 | 0 28 23 | 28.9 | 2.9 | 5 | 6.8 29 10 | f 29.8 | 3.9 | 5 | 6.8 29 10 | f 29.8 | 3.9 | 5 | 6.8 29 10 | f 29.8 | 3.9 | 5 | 6.8 29 10 | f 29.8 | 3.9 | | | |
| 34 | 8 | 4 | 24 50 | 1 28.9 | 8 | 3 25 37 | 25.9 | μ 29.8 | 7.7 | 1 | 26 23 | 26.8 | 0.8 | 6 | 4.9 27 10 | 27.6 | 8 | 6 | 5.8 27 56 | 5 7 | 5 | 6 28 43 | 4 7 | 5 | 6 28 43 | 4 7 | 5 | 6 28 43 | 4 7 | 5 | 6 28 43 | 4 7 | | | | |
| 35 | 8 | 2 | 24 24 | 24.7 | 7 | 6.7 | 1 25 11 | 5 6 | 6 | 7 | 3.9 25 57 | 4 6 | 6 | 6 | 7 26 43 | 2 6 | 5 | 6 27 30 | 1 5 | 5 | 5 4 28 16 | 0 5 | 5 | 5 4 28 16 | 0 5 | 5 | 5 4 28 16 | 0 5 | 5 | 5 4 28 16 | 0 5 | | | | | |
| 36 | 8 | 0 | 23 58 | 3 5 | 7 | 2.9 | 24 44 | 1 4 | 4 | 7 | 7 25 30 | 0 4 | 6 | 6 | 5 26 17 | 26.8 | 4 | 5 | 4 27 2 | 27.6 | 3 | 4 | 2 27 48 | 28.5 | 3 | 4 | 2 27 48 | 28.5 | 3 | 4 | 2 27 48 | 28.5 | 3 | | | |
| 37 | 8 | 1.8 | 23 32 | 23.9 | 3 | 7 | 7 24 18 | 24.7 | 2 | 6 | 5 25 3 | 25.6 | 2 | 5 | 4 25 49 | 4 2 | 9.5 | 2 26 35 | 2 1 | 10.4 | 0 27 20 | 1 1 | 10.4 | 0 27 20 | 1 1 | 10.4 | 0 27 20 | 1 1 | 10.4 | 0 27 20 | 1 1 | 10.4 | 0 27 20 | 1 1 | | |
| 38 | 5.7 | 6 | 23 5 | 4 1 | 7 | 4 23 51 | 3 0 | 6 | 3 24 36 | 1 0 | 8.5 | 2 25 22 | 25.9 | 0 | 4 | 0 26 7 | 26.8 | 1.9 | 3 | 5.8 26 52 | 27.6 | 2.9 | 3 | 5.8 26 52 | 27.6 | 2.9 | 3 | 5.8 26 52 | 27.6 | 2.9 | 3 | 5.8 26 52 | 27.6 | 2.9 | | |
| 39 | 7 | 4 | 22 38 | 22.9 | 27.9 | 6 | 2 23 23 | 23.8 | 28.8 | 7.6 | 1 24 8 | μ 24.6 | 29.8 | 5 | 0 24 53 | 5 0.8 | 4 | 4.8 25 38 | 3 7 | 3 | 6 26 23 | 2 7 | 3 | 6 26 23 | 2 7 | 3 | 6 26 23 | 2 7 | 3 | 6 26 23 | 2 7 | 3 | | | | |
| 40 | 7 | 2 | 22 11 | 5 6 | 6.6 | 0 | 22 55 | 3 6 | 6 | 5 | 2.9 23 40 | 2 6 | 4 | 4 | 3.7 24 25 | 0 5 | 4 | 5 25 9 | 25.8 | 5 | 3 | 3 25 54 | 26.7 | 5 | 3 | 3 25 54 | 26.7 | 5 | 3 | 3 25 54 | 26.7 | 5 | | | | |
| 41 | 7 | 0 | 21 42 | 0 4 | 6 | 1.8 | 22 27 | 22.9 | 4 | 5 | 7 23 11 | 23.7 | 4 | 4 | 5 23 55 | 24.5 | 3 | 3 | 3 24 40 | 4 3 | 2 | 1 25 24 | 2 3 | 2 | 1 25 24 | 2 3 | 2 | 1 25 24 | 2 3 | 2 | 1 25 24 | 2 3 | | | | |
| 42 | 6 | 0.8 | 21 14 | 21.5 | 2 | 6 | 6 21 58 | 4 1 | 5 | 5 | 22 42 | 2 1 | 8.4 | 2 23 26 | 0 1 | 9.3 | 0 24 10 | 24.9 | 1 | 10.2 | 4.8 24 53 | 25.7 | 0 | 10.2 | 4.8 24 53 | 25.7 | 0 | 10.2 | 4.8 24 53 | 25.7 | 0 | 10.2 | 4.8 24 53 | 25.7 | 0 | |
| 43 | 5.6 | 6 | 20 45 | 0 26.9 | 5 | 3 | 21 28 | 21.9 | 27.9 | 4 | 2 22 12 | 22.6 | 28.9 | 3 | 0 22 56 | 23.5 | μ 29.8 | 3 | 3.8 | 23 39 | 3 0.8 | 1 | 6 24 22 | 1 1.8 | 1 | 6 24 22 | 1 1.8 | 1 | 6 24 22 | 1 1.8 | 1 | 6 24 22 | 1 1.8 | 1 | | |
| 44 | 6 | 4 | 20 15 | 20.5 | 6 | 6.5 | 1 20 58 | 3 6 | 7.4 | 0 | 21 42 | 1 6 | 3 | 2.7 22 25 | 0 6 | 2 | 5 23 8 | 23.8 | 6 | 1 | 3 23 51 | 24.6 | 5 | 1 | 3 23 51 | 24.6 | 5 | 1 | 3 23 51 | 24.6 | 5 | 1 | 3 23 51 | 24.6 | 5 | |
| 45 | 6 | 2 | 19 45 | 19.9 | 3 | 5 | 0.9 20 28 | 20.8 | 3 | 4 | 1.7 21 11 | 21.5 | 4 | 3 | 5 21 54 | 22.4 | 4 | 2 | 3 22 36 | 2 4 | 0 | 1 23 19 | 0 3 | 0 | 1 23 19 | 0 3 | 0 | 1 23 19 | 0 3 | 0 | 1 23 19 | 0 3 | 0 | | | |
| 46 | 5 | \sphericalangle 29.9 | 19 14 | 3 1 | 5 | 7 | 19 57 | 2 1 | 3 | 3 | 5 20 39 | 0 1 | 8.2 | 3 21 22 | 21.9 | 1 | 2 | 0 22 4 | 22.7 | 1 | 0 | 3.8 22 46 | 23.5 | 1 | 0 | 3.8 22 46 | 23.5 | 1 | 0 | 3.8 22 46 | 23.5 | 1 | 0 | 3.8 22 46 | 23.5 | 1 |
| 47 | 5 | 7 | 18 43 | 18.8 | 25.8 | 4 | 5 19 25 | 19.6 | 26.8 | 3 | 3 20 7 | 20.4 | 27.8 | 2 | 1 20 49 | 3 28.8 | 9.1 | 2.7 | 21 31 | μ 1 29.8 | 9.9 | 6 22 12 | 22.9 | 0.8 | 9.9 | 6 22 12 | 22.9 | 0.8 | 9.9 | 6 22 12 | 22.9 | 0.8 | 9.9 | 6 22 12 | 22.9 | 0.8 |
| 48 | 5.5 | 4 | 18 11 | 2 5 | 6.4 | 3 | 18 52 | 0 5 | 7.3 | 0 | 19 34 | 19.8 | 5 | 2 | 1.8 20 15 | 20.7 | 5 | 1 | 5 20 57 | 21.5 | 5 | 9 | 3 21 38 | 3 5 | 5 | 9 | 3 21 38 | 3 5 | 5 | 9 | 3 21 38 | 3 5 | 5 | | | |
| 49 | 5 | 1 | 17 38 | 17.6 | 1 | 4 | 0 18 19 | 18.4 | 1 | 2 | 0.7 19 0 | 2 2 | 1 | 1 | 5 19 41 | 0 2 | 0 | 2 20 22 | 20.8 | 2 | 9 | 0 21 3 | 21.7 | 2 | 9 | 0 21 3 | 21.7 | 2 | 9 | 0 21 3 | 21.7 | 2 | 9 | 0 21 3 | 21.7 | 2 |
| 50 | 5 | 28.9 | 17 4 | 0 24.8 | 4 | \sphericalangle 29.7 | 17 45 | 17.8 | 25.8 | 2 | 4 18 25 | 18.6 | 26.8 | 8.1 | 2 19 6 | 19.4 | 27.8 | 0 | 1.9 | 19 46 | μ 2 28.8 | 8 | 2.7 20 27 | 0 29.8 | 8 | 2.7 20 27 | 0 29.8 | 8 | 2.7 20 27 | 0 29.8 | 8 | 2.7 20 27 | 0 29.8 | 8 | | |
| 51 | 4 | 6 | 16 30 | 16.3 | 4 | 3 | 4 17 10 | 1 4 | 2 | 2 | 1 17 50 | 17.9 | 4 | 1 | 0.9 18 30 | 18.7 | 4 | 8.9 | 6 19 10 | 19.5 | 4 | 8 | 4 19 50 | 20.3 | 4 | 8 | 4 19 50 | 20.3 | 4 | 8 | 4 19 50 | 20.3 | 4 | | | |
| 52 | 5.4 | 4 | 15 55 | 15.6 | 0 | 6.3 | 1 16 34 | 16.4 | 0 | 7.1 | \sphericalangle 29.8 | 17 14 | 2 0 | 0 | 6 17 53 | 0 0 | 9 | 3 | 18 33 | 18.8 | 0 | 9.7 | 1 19 12 | 19.6 | 0 | 9.7 | 1 19 12 | 19.6 | 0 | 9.7 | 1 19 12 | 19.6 | 0 | | | |
| 53 | 4 | 1 | 15 19 | 14.9 | 23.6 | 3 | 28.8 | 15 58 | 15.6 | 24.6 | 1 | 5 16 37 | 16.4 | 25.6 | 0 | 3 17 16 | 17.2 | 26.6 | 8 | 0 17 54 | 0 27.6 | 7 | 1.8 18 33 | 18.8 | 28.6 | 7 | 1.8 18 33 | 18.8 | 28.6 | 7 | 1.8 18 33 | 18.8 | 28.6 | | | |
| 54 | 3 | 27.8 | 14 42 | 1 1 | 2 | 5 | 15 20 | 14.8 | 1 | 0 | 2 15 59 | 15.6 | 1 | 7.9 | 0 16 37 | 16.4 | 1 | 7 | 0.7 17 15 | 17.2 | 1 | 6 | 5 17 54 | 0 2 | 6 | 5 17 54 | 0 2 | 6 | 5 17 54 | 0 2 | 6 | 5 17 54 | 0 2 | 6 | | |
| 55 | 3 | 5 | 14 4 | 13.3 | 22.6 | 2 | 2 14 43 | 0 23.6 | 0 | 28.9 | 15 20 | 14.8 | 24.6 | 9 | \sphericalangle 29.7 | 15 57 | 15.5 | 25.6 | 7 | 4 16 35 | 16.3 | 26.6 | 6 | 1 17 13 | 17.1 | 27.7 | 6 | 1 17 13 | 17.1 | 27.7 | 6 | 1 17 13 | 17.1 | 27.7 | | |
| 56 | 3 | 2 | 13 25 | 12.5 | 0 | 1 | 27.9 | 14 2 | 13.1 | 1 | 6.9 | 6 14 39 | 13.9 | 1 | 8 | 3 15 17 | 14.6 | 1 | 6 | 0 15 54 | 15.4 | | | | | | | | | | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 10 46 9 } μ ARC 161° 32' 2 } 10° | | | | | | H. M. S. 10 49 53 } μ 11° 162° 28' 2 } | | | | | | H. M. S. 10 53 37 } μ 12° 163° 24' 1 } | | | | | | H. M. S. 10 57 20 } μ 13° 164° 20' 0 } | | | | | | H. M. S. 11 1 3 } μ 14° 165° 15' 7 } | | | | | | H. M. S. 11 4 46 } μ 15° 166° 11' 4 } | | | | | | |
|---|------|-------------|-----------|------|------|--|---------|-----------|------|------|------|--|---------|-------|-----|------|---------|--|-------|------|--------|-------------|---------|--|-------|--------|---------|-----------|---------|---|--------|-----|---|---|---|--|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | |
| Lat. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | | |
| 22 | 11.9 | 9.9 | 4 33 | 4.4 | 6.5 | 12.8 | 10.7 | 5 22 | 5.3 | 7.5 | 13.8 | 11.6 | 6 11 | 6.2 | 8.4 | 14.7 | 12.5 | 7 1 | 7.0 | 9.4 | 15.7 | 13.3 | 7 50 | 7.9 | 10.3 | 16.6 | 14.2 | 8 38 | 8.8 | 11.3 | | | | | | |
| 23 | 8 | 7 4 9 | 1 | 4 | | 8 | 5 4 58 | 0 | 3 | | 7 | 4 5 47 | 5.8 | 3 | | 7 | 3 6 36 | 6.7 | 3 | | 6 | 1 7 25 | 6 | 2 | | 6 | 0 8 13 | 4 | 2 | | | | | | | |
| 24 | 8 | 5 3 45 | 3.8 | 3 | | 7 | 3 4 34 | 4.6 | 2 | | 7 | 2 5 22 | 5 | 2 | | 6 | 1 6 11 | 4 | 1 | | 6 | 12.9 | 7 0 | 2 | 1 | | 5 | 13.8 | 7 48 | 1 | 0 | | | | | |
| 25 | 8 | 3 3 21 | 5 | 1 | | 7 | 1 4 9 | 3 | 1 | | 7 | 0 4 58 | 2 | 0 | | 6 | 11.9 | 5 46 | 0 | 0 | | 5 | 7 6 35 | 6.9 | 0 | | 5 | 6 7 23 | 7.5 | 10.9 | | | | | | |
| 26 | 7 | 1 2 56 | 1 | 0 | | 7 | 9.9 | 3 44 | 0 | 6.9 | 6 | 10.8 | 4 33 | 4.8 | 7.9 | 6 | 7 5 21 | 5.7 | 8.9 | 15.5 | 5 6 9 | 6 | 9.8 | | 4 | 4 6 57 | 4 | 8 | | | | | | | | |
| 27 | 11.7 | 8.9 | 2 31 | 2.8 | 5.8 | 12.6 | 7 3 19 | 3.6 | 8 | | 13.6 | 6 4 7 | 5 | 8 | | 14.5 | 4 4 55 | 4 | 7 | | 4 | 3 5 43 | 2 | 7 | | 16.4 | 1 6 31 | 1 | 6 | | | | | | | |
| 28 | 7 | 7 2 6 | 4 | 7 | | 6 | 5 2 54 | 3 | 6 | | 5 | 4 3 42 | 2 | 6 | | 5 | 2 7 30 | 0 | 6 | | 4 | 1 5 17 | 5.9 | 5 | | 3 | 12.9 | 6 5 | 6.7 | 5 | | | | | | |
| 29 | 6 | 5 1 41 | 1 | 5 | | 6 | 3 2 28 | 2.9 | 5 | | 5 | 2 3 16 | 3.8 | 5 | | 4 | 0 4 4 | 4.7 | 4 | | 4 | 11.9 | 4 51 | 5 | 4 | | 3 | 7 5 39 | 4 | 10.4 | | | | | | |
| 30 | 6 | 3 1 15 | 1.7 | 4 | | 5 | 1 2 3 | 6 | 6.3 | | 4 | 9.9 | 2 50 | 4 | 7.3 | 4 | 10.8 | 3 37 | 3 | 3 | 15.3 | 6 4 25 | 2 | 2 | | 2 | 5 5 12 | 0 | 2 | | | | | | | |
| 31 | 6 | 1 0 49 | 4 | 2 | | 12.5 | 8.9 | 1 36 | 2 | 2 | 4 | 7 2 24 | 1 | 1 | | 14.3 | 6 3 11 | 3.9 | 1 | | 3 | 4 3 58 | 4.8 | 1 | | 2 | 2 4 45 | 5.7 | 0 | | | | | | | |
| 32 | 11.5 | 7.9 | 0 23 | 0 | 0 | 4 | 7 1 10 | 1.9 | 0 | | 13.4 | 5 1 57 | 2.7 | 0 | | 3 | 4 2 44 | 6 | 7.9 | 2 | 2 3 30 | 4 | 8.9 | | 16.1 | 0 4 17 | 3 | 9.9 | | | | | | | | |
| 33 | 5 | 6 29 56 | 0.6 | 4.8 | | 4 | 5 0 43 | 5 | 5.8 | | 3 | 3 1 30 | 3 | 6.8 | | 2 | 1 2 16 | 2 | 8 | | 2 | 0 3 3 | 0 | 7 | | 1 | 11.8 | 3 49 | 4.9 | 7 | | | | | | |
| 34 | 4 | 4 29 29 | 2 | 6 | | 3 | 2 0 16 | 1 | 7 | | 3 | 1 1 2 | 1.9 | 6 | | 2 | 9.9 | 1 48 | 2.8 | 6 | 15.1 | 10.7 | 2 35 | 3.6 | 6 | | 0 | 5 3 21 | 5 | 5 | | | | | | |
| 35 | 4 | 2 29 2 29.8 | 5 | 12.3 | | 0 29 48 | 0.7 | 5 | | 2 | 8.8 | 0 34 | 5 | 4 | | 14.1 | 6 1 20 | 4 | 4 | | 1 | 5 2 6 | 2 | 4 | | 0 | 3 2 52 | 1 | 4 | | | | | | | |
| 36 | 4 | 0 28 34 | 4 | 3 | | 3 | 7.8 | 29 20 | 3 | 3 | 2 | 6 0 6 | 1 | 2 | | 1 | 4 0 51 | 0 | 2 | | 0 | 2 1 37 | 2.8 | 2 | | 15.9 | 0 2 23 | 3.7 | 2 | | | | | | | |
| 37 | 11.3 | 6.8 | 28 6 | 0 | 1 | 2 | 6 28 51 | 29.8 | 1 | | 13.1 | 4 29 37 | 0.7 | 0 | | 0 | 2 0 22 | 1.5 | 0 | | 0 | 0 1 7 | 4 | 0 | | 9 | 10.8 | 1 53 | 2 | 0 | | | | | | |
| 38 | 3 | 6 27 37 | 28.5 | 3.9 | | 2 | 4 28 22 | 4 | 4.9 | | 1 | 2 29 7 | 2 | 5.8 | | 0 | 0 29 53 | 1 | 6.8 | 14.9 | 9.8 | 0 37 | 1.9 | 7.8 | | 8 | 5 1 23 | 2.8 | 8.8 | | | | | | | |
| 39 | 2 | 4 27 8 | 0 | 7 | | 12.1 | 2 27 53 | 28.9 | 7 | | 0 | 0 28 38 | 29.7 | 6 | | 13.9 | 8.8 | 29 22 | 0.6 | 6 | 8 | 6 0 7 | 4 | 6 | | 7 | 3 0 52 | 3 | 6 | | | | | | | |
| 40 | 2 | 1 26 38 | 27.5 | 5 | | 1 | 6.9 | 27 23 | 4 | 4 | 0 | 7.7 | 28 7 | 2 | 4 | | 9 | 5 28 52 | 1 | 4 | 8 | 3 29 36 | 0.9 | 4 | | 7 | 0 0 21 | 1.8 | 4 | | | | | | | |
| 41 | 11.1 | 5.9 | 26 8 | 0 | 2 | 0 | 7 26 52 | 27.9 | 2 | | 12.9 | 5 27 36 | 28.7 | 2 | | 8 | 3 28 20 | 29.6 | 2 | | 7 | 0 29 5 | 4 | 2 | | 15.6 | 9.7 | 29 49 | 3 | 2 | | | | | | |
| 42 | 1 | 6 25 38 | 26.5 | 0 | 0 | 4 | 26 21 | 4 | 0 | | 9 | 2 27 5 | 2 | 0 | | 8 | 0 27 49 | 1 | 0 | | 7 | 8.8 | 28 32 | 29.9 | 0 | | 6 | 5 29 16 | 0.8 | 7.9 | | | | | | |
| 43 | 0 | 4 25 6 | 0 | 2.8 | | 11.9 | 1 25 49 | 26.8 | 3.8 | | 8 | 6.9 | 26 33 | 27.7 | 4.7 | 13.7 | 7.7 | 27 16 | 28.5 | 5.7 | 14.6 | 5 27 59 | 4 | 6.7 | | 5 | 2 28 43 | 2 | 7 | | | | | | | |
| 44 | 0 | 1 24 34 | 25.4 | 5 | | 9 | 5.9 | 25 17 | 3 | 5 | 8 | 7 26 0 | 1 | 5 | | 6 | 4 26 43 | 0 | 5 | | 5 | 2 27 26 | 28.8 | 5 | | 4 | 8.9 | 28 9 29.7 | 4 | | | | | | | |
| 45 | 10.9 | 4.8 | 24 2 24.9 | 3 | | 8 | 6 24 44 | 25.7 | 3 | | 7 | 4 25 27 | 26.5 | 3 | | 6 | 1 26 9 | 27.4 | 3 | | 5 | 7.9 | 26 52 | 2 | 2 | | 3 | 6 27 34 | 1 | 2 | | | | | | |
| 46 | 9 | 5 23 28 | 3 | 1 | | 8 | 3 24 10 | 1 | 0 | | 12.6 | 1 24 52 | 25.9 | 0 | | 5 | 6.8 | 25 34 | 26.8 | 0 | | 4 | 6 26 16 | 27.6 | 0 | | 15.3 | 3 26 59 | 28.5 | 0 | | | | | | |
| 47 | 8 | 3 22 54 | 23.7 | 1.8 | | 7 | 1 23 36 | 24.5 | 2.7 | | 6 | 5.8 | 24 17 | 3 | 3.7 | 13.4 | 5 24 59 | 2 | 4.7 | | 3 | 3 25 41 | 0 | 5.7 | | 2 | 0 26 22 | 27.9 | 6.7 | | | | | | | |
| 48 | 8 | 0 22 19 | 1 | 5 | | 11.7 | 4.8 | 23 0 23.9 | 4 | | 5 | 5 23 42 | 24.7 | 4 | | 4 | 2 24 23 | 25.6 | 4 | | 14.2 | 0 25 4 26.4 | 4 | | | 1 | 7.7 | 25 45 | 2 | 4 | | | | | | |
| 49 | 10.7 | 3.7 | 21 44 | 22.4 | 2 | | 6 | 5 22 24 | 3 | 1 | | 5 | 2 23 5 | 1 | 1 | | 3 | 5.9 | 23 46 | 24.9 | 1 | | 2 | 6.7 | 24 27 | 25.7 | 1 | | 1 | 4.25 | 7 26.5 | 4 | | | | |
| 50 | 7 | 4 21 7 21.8 | 0.8 | 6 | | 2 21 47 | 22.6 | 1.8 | | 4 | 4.9 | 22 28 | 23.4 | 2.8 | | 3 | 6 23 8 | 2 | 3.8 | | 1 | 4 23 48 | 0 | 4.8 | | 0 | 1 24 28 | 25.9 | 5.8 | | | | | | | |
| 51 | 6 | 1 20 30 | 1 | 4 | | 5 | 3.9 | 21 9 21.9 | 4 | | 12.3 | 6 21 49 | 22.7 | 4 | | 13.2 | 3 22 29 | 23.5 | 4 | | 1 | 1 23 9 | 24.3 | 4 | | 14.9 | 6.8 | 23 49 | 2 | 4 | | | | | | |
| 52 | 6 | 2.8 | 19 52 | 20.4 | 0 | | 11.5 | 6 20 31 | 1 | 0 | | 3 | 3 21 10 | 21.9 | 0 | | 2 | 0 21 49 | 22.7 | 0 | | 0 | 5.7 | 22 28 | 23.5 | 0 | | 9 | 4 23 8 | 24.4 | 1 | | | | | |
| 53 | 10.5 | 5 | 19 12 | 19.6 | 29.6 | | 4 | 2 19 51 | 20.3 | 0.6 | | 2 | 3.9 | 20 29 | 1 | 1.6 | | 1 | 4.7 | 21 8 | 21.9 | 2.6 | 13.9 | 4 21 47 | 22.7 | 3.6 | | 8 | 1 22 26 | 23.6 | 4.7 | | | | | |
| 54 | 5 | 2 18 32 | 18.8 | 2 | | 3 | 2.9 | 19 10 | 19.5 | 2 | | 2 | 6 19 48 | 20.3 | 2 | | 0 | 3 20 26 | 1 | 2 | | 8 | 0 21 4 | 21.9 | 2 | | 7 | 5.7 | 21 42 | 22.7 | 3 | | | | | |
| 55 | 4 | 1.8 | 17 50 | 17.9 | 28.7 | | 2 | 5 18 28 | 18.6 | 29.7 | | 1 | 2 19 5 | 19.4 | 0.7 | | 12.9 | 3.9 | 19 43 | 20.2 | 1.8 | | 8 | 4 6 20 | 20 | 0 | 2.8 | | 6 | 3 20 58 | 21.8 | 3.9 | | | | |
| 56 | 3 | 4 17 7 | 0 | 2 | | 1 | 1 17 45 | 17.7 | 2 | | 1 | 2.8 | 18 21 | 18.5 | 2 | | 9 | 5 18 58 | 19.3 | 3 | | 7 | 2 19 35 | 20.0 | 3 | | 5 | 4.9 | 20 12 | 20.8 | 4 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 11 4 46 } \nearrow ARC 166° 11'.4 } 15° | | | | | | H. M. S. 11 8 28 } \nearrow 16° | | | | | | H. M. S. 11 12 10 } \nearrow 17° | | | | | | H. M. S. 11 15 52 } \nearrow 18° | | | | | | H. M. S. 11 19 33 } \nearrow 19° | | | | | | H. M. S. 11 23 15 } \nearrow 20° | | | | | | |
|--|-------------|--------|-------------|----------|----------|--------------------------------------|--------|-------|----------|----------|-------------|---------------------------------------|-------|----------|----------|-------------|--------|---------------------------------------|----------|----------|-------------|--------|-------|---------------------------------------|----------|-------------|--------|-------|----------|---------------------------------------|------|------|-------|------|------|-----|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | | |
| Lat. | \triangle | \cap | f | ∇ | \equiv | \triangle | \cap | f | ∇ | \equiv | \triangle | \cap | f | ∇ | \equiv | \triangle | \cap | f | ∇ | \equiv | \triangle | \cap | f | ∇ | \equiv | \triangle | \cap | f | ∇ | \equiv | | | | | | |
| 22 | 16.6 | 14.2 | 8.38 | 8.8 | 11.3 | 17.6 | 15.0 | 9.27 | 9.6 | 12.3 | 18.5 | 15.9 | 10.16 | 10.5 | 13.2 | 19.4 | 16.7 | 11.5 | 11.4 | 14.2 | 20.4 | 17.6 | 11.53 | 12.3 | 15.2 | 21.3 | 18.4 | 12.42 | 13.1 | 16.1 | | | | | | |
| 23 | 6 | 0 | 8.13 | 4 | 2 | 5.14.8 | 9.2 | 3 | 1 | 4 | 7 | 9.51 | 2 | 1 | 4 | 5 | 10.39 | 1 | 1 | 3 | 4 | 11.28 | 11.9 | 0 | 2 | 2 | 12.16 | 12.8 | 0 | | | | | | | |
| 24 | 5 | 13.8 | 7.48 | 1 | 0 | 5 | 6 | 8.37 | 0 | 0 | 4 | 5 | 9.25 | 9.8 | 0 | 3 | 3 | 10.14 | 10.7 | 13.9 | 2 | 2 | 11.2 | 6 | 14.9 | 2 | 0 | 11.50 | 5 | 15.9 | | | | | | |
| 25 | 5 | 6 | 7.23 | 7.8 | 10.9 | 4 | 4 | 8.11 | 8.6 | 11.9 | 3 | 2 | 8.59 | 5 | 12.8 | 3 | 1 | 9.48 | 4 | 8 | 2 | 16.9 | 10.36 | 3 | 8 | 1 | 17.8 | 11.24 | 2 | 8 | | | | | | |
| 26 | 4 | 4 | 6.57 | 4 | 8 | 17.4 | 2 | 7.45 | 3 | 8 | 3 | 0 | 8.33 | 2 | 7 | 2 | 15.8 | 9.22 | 1 | 7 | 20.1 | 7 | 10.10 | 10.9 | 7 | 1 | 6 | 10.58 | 11.8 | 7 | | | | | | |
| 27 | 16.4 | 1 | 6.31 | 1 | 6 | 3 | 0 | 7.19 | 0 | 6 | 18.2 | 14.8 | 8 | 7 | 8.8 | 6 | 19.2 | 6 | 8.55 | 9.7 | 6 | 1 | 5 | 9.43 | 6 | 5 | 0 | 3 | 10.31 | 5 | 5 | | | | | |
| 28 | 3 | 12.9 | 6 | 5 | 6.7 | 5 | 3 | 13.7 | 6.53 | 7.6 | 5 | 2 | 6 | 7.40 | 5 | 4 | 1 | 4 | 8.28 | 4 | 13.4 | 0 | 2 | 9.16 | 2 | 14.4 | 20.9 | 1 | 10 | 3 | 1 | 15.4 | | | | |
| 29 | 3 | 7 | 5.39 | 4 | 10.4 | 2 | 5 | 6.26 | 3 | 11.3 | 1 | 3 | 7.14 | 1 | 12.3 | 0 | 2 | 8 | 1 | 0 | 3 | 19.9 | 0 | 8.48 | 9.9 | 3 | 9 | 16.8 | 9.36 | 10.8 | 3 | | | | | |
| 30 | 2 | 5 | 5.12 | 0 | 2 | 17.1 | 3 | 5.59 | 6.9 | 2 | 1 | 1 | 6.46 | 7.8 | 2 | 0 | 14.9 | 7.34 | 8.6 | 1 | 9 | 15.8 | 8.21 | 5 | 1 | 8 | 6 | 9 | 8 | 4 | 1 | | | | | |
| 31 | 2 | 2 | 4.45 | 5.7 | 0 | 1 | 1 | 5.32 | 5 | 0 | 0 | 13.9 | 6.19 | 4 | 0 | 18.9 | 7 | 7 | 6 | 3 | 0 | 8 | 5 | 7.53 | 2 | 0 | 7 | 3 | 8.40 | 1 | 0 | | | | | |
| 32 | 16.1 | 0 | 4.17 | 3 | 9.9 | 0 | 12.8 | 5 | 4 | 2 | 10.9 | 17.9 | 6 | 5.51 | 0 | 11.9 | 9 | 5 | 6.37 | 7.9 | 12.8 | 8 | 3 | 7.24 | 8.8 | 13.8 | 7 | 1 | 8.11 | 9.7 | 14.8 | | | | | |
| 33 | 1 | 11.8 | 3.49 | 4.9 | 7 | 0 | 6 | 4.36 | 5.8 | 7 | 9 | 4 | 5.22 | 6.7 | 7 | 8 | 2 | 6 | 9 | 5 | 7 | 7 | 0 | 6.55 | 4 | 7 | 20.6 | 15.8 | 7.42 | 3 | 7 | | | | | |
| 34 | 0 | 5 | 3.21 | 5 | 5 | 16.9 | 3 | 4 | 7 | 4 | 5 | 8 | 1 | 4.53 | 3 | 5 | 7 | 0 | 5.39 | 1 | 5 | 19.6 | 14.8 | 6.26 | 0 | 5 | 5 | 6 | 7.12 | 8.9 | 5 | | | | | |
| 35 | 0 | 3 | 2.52 | 1 | 4 | 9 | 1 | 3.38 | 0 | 4 | 8 | 12.9 | 4.24 | 5.8 | 4 | 7 | 13.7 | 5.10 | 6.7 | 4 | 6 | 5 | 5.56 | 7.6 | 3 | 5 | 3 | 6.42 | 5 | 3 | | | | | | |
| 36 | 15.9 | 0 | 2.23 | 3.7 | 2 | 8 | 11.8 | 3 | 8 | 4.5 | 2 | 17.7 | 6 | 3.54 | 4 | 2 | 18.6 | 4 | 4.40 | 3 | 2 | 5 | 2 | 5.25 | 2 | 2 | 4 | 0 | 6.11 | 0 | 2 | | | | | |
| 37 | 9 | 10.8 | 1.53 | 2 | 0 | 7 | 6 | 2.38 | 1 | 0 | 6 | 4 | 3.24 | 0 | 0 | 5 | 2 | 4 | 9 | 5.8 | 0 | 4 | 0 | 4.55 | 6.7 | 0 | 3 | 14.8 | 5.40 | 7.6 | 0 | | | | | |
| 38 | 8 | 5 | 1.23 | 2.8 | 8.8 | 7 | 3 | 2 | 8 | 3.6 | 9.8 | 6 | 1 | 2.53 | 4.5 | 10.8 | 5 | 12.9 | 3.38 | 4 | 11.8 | 4 | 13.8 | 4.23 | 3 | 12.8 | 20.2 | 5 | 5 | 8 | 1 | 13.8 | | | | |
| 39 | 7 | 3 | 0.52 | 3 | 6 | 16.6 | 1 | 1.37 | 1 | 6 | 5 | 11.8 | 2.21 | 0 | 6 | 4 | 6 | 3 | 6 | 4.9 | 6 | 19.3 | 5 | 3.51 | 5.8 | 6 | 2 | 3 | 4.36 | 6.6 | 6 | | | | | |
| 40 | 7 | 0 | 0.21 | 1.8 | 4 | 6 | 10.8 | 1 | 5 | 2.6 | 4 | 17.4 | 6 | 1.49 | 3.5 | 4 | 3 | 4 | 2.34 | 4 | 4 | 2 | 2 | 3.18 | 2 | 4 | 1 | 0 | 4 | 3 | 1 | 4 | | | | |
| 41 | 15.6 | 9.7 | μ 29.49 | 3 | 2 | 5 | 5 | 0.33 | 1 | 2 | 4 | 3 | 1.17 | 0 | 2 | 18.3 | 1 | 2 | 1 | 3.9 | 2 | 1 | 12.9 | 2.45 | 4.7 | 2 | 0 | 13.7 | 3.29 | 5.6 | 2 | | | | | |
| 42 | 6 | 5 | 29.16 | 0.8 | 7.9 | 4 | 2 | 0 | 0 | 1.6 | 8.9 | 3 | 0 | 0.43 | 2.5 | 9.9 | 2 | 11.8 | 1.27 | 3 | 0 | 1 | 6 | 2.11 | 2 | 0 | 19.9 | 4 | 2.55 | 1 | 0 | | | | | |
| 43 | 5 | 2 | 28.43 | 2 | 7 | 4 | 0 | 29.26 | 1 | 7 | 2 | 10.7 | 0 | 9 | 1.9 | 7 | 1 | 5 | 0.53 | 2.8 | 10.7 | 0 | 3 | 1.36 | 3.6 | 11.7 | 9 | 1 | 2.20 | 4.5 | 12.8 | | | | | |
| 44 | 4 | 8.9 | 28 | 9 | 29.7 | 4 | 16.3 | 9.7 | 28.52 | 0.5 | 5 | 17.2 | 4 | 29.35 | 3 | 5 | 0 | 2 | 0.18 | 2 | 5 | 18.9 | 0 | 1 | 1 | 1 | 5 | 8 | 12.8 | 1.44 | 3.9 | 5 | | | | |
| 45 | 3 | 6 | 27.34 | 1 | 2 | 2 | 4 | 28.17 | 29.9 | 3 | 1 | 2 | 28.59 | 0.7 | 3 | 17.9 | 10.9 | 29.42 | 1.6 | 3 | 8 | 11.7 | 0.24 | 2.5 | 3 | 7 | 5 | 1 | 7 | 3 | 3 | | | | | |
| 46 | 15.3 | 3 | 26.59 | 28.5 | 0 | 1 | 1 | 27.41 | 3 | 1 | 0 | 9.9 | 28.23 | 1 | 1 | 8 | 6 | 29 | 5 | 0 | 1 | 7 | 4 | 29.47 | 1.9 | 1 | 19.6 | 2 | 0.30 | 2.7 | 1 | | | | | |
| 47 | 2 | 0 | 26.22 | 27.9 | 6.7 | 0 | 8.8 | 27 | 4 | 28.7 | 7.8 | 0 | 6 | 27.46 | 29.5 | 8.8 | 8 | 3 | 28.28 | 0.4 | 9.8 | 7 | 0 | 29 | 9 | 2 | 10.9 | 5 | 11.9 | 29.51 | 1 | 11.8 | | | | |
| 48 | 1 | 7.7 | 25.45 | 2 | 4 | 0 | 5 | 26.26 | 0 | 5 | 16.9 | 3 | 27 | 8 | 28.9 | 5 | 7 | 0 | 27.49 | 29.7 | 5 | 18.6 | 10.7 | 28.30 | 0.6 | 6 | 4 | 5 | 29.12 | 1.4 | 5 | | | | | |
| 49 | 1 | 4 | 25 | 7 | 26.5 | 1 | 15.9 | 2 | 25 | 48 | 27.4 | 2 | 8 | 0 | 26.29 | 2 | 2 | 17.6 | 9.7 | 27.10 | 1 | 2 | 5 | 3 | 27.51 | 29.9 | 3 | 3 | 2 | 28.31 | 0.8 | 3 | | | | |
| 50 | 0 | 1 | 24 | 28 | 25.9 | 5.8 | 8 | 7.8 | 25 | 9 | 26.7 | 6.9 | 7 | 8.6 | 25 | 49 | 27.5 | 7.9 | 5 | 3 | 26 | 29 | 28.4 | 8.9 | 4 | 0 | 27 | 10 | 2 | 0 | 19.2 | 10.8 | 27.50 | 1 | 0 | |
| 51 | 14.9 | 6.8 | 23.49 | 2 | 4 | 7 | 5 | 24 | 28 | 25.9 | 5 | 6 | 3 | 25 | 8 | 26.8 | 6 | 5 | 0 | 25 | 48 | 27.6 | 6 | 3 | 9.7 | 26 | 28 | 28.5 | 9.7 | 1 | 4 | 27 | 8 | 29.3 | 10.7 | |
| 52 | 9 | 4 | 23 | 8 | 24.4 | 1 | 7 | 1 | 23 | 47 | 1 | 1 | 16.6 | 7.9 | 24 | 26 | 0 | 2 | 4 | 8.6 | 25 | 5 | 26.8 | 2 | 18.2 | 3 | 25 | 45 | 27.7 | 3 | 0 | 0 | 26 | 24 | 28.5 | 4 |
| 53 | 8 | 1 | 22 | 26 | 23.6 | 4.7 | 15.6 | 6.8 | 23 | 4 | 24.3 | 5.7 | 5 | 5 | 23 | 43 | 25.1 | 6.8 | 17.3 | 2 | 24 | 22 | 25.9 | 7.8 | 1 | 8.9 | 25 | 0 | 26.8 | 8.9 | 18.9 | 9.6 | 25 | 39 | 27.7 | 0 |
| 54 | 7 | 5.7 | 21 | 42 | 22.7 | 3 | 5 | 4 | 22 | 20 | 23.4 | 3 | 4 | 1 | 22 | 58 | 24.2 | 4 | 2 | 7.8 | 23 | 37 | 0 | 4 | 0 | 5 | 24 | 15 | 25.9 | 5 | 8 | 2 | 24 | 53 | 26.8 | 9.6 |
| 55 | 6 | 3 | 20 | 58 | 21.8 | 3.9 | 4 | 0 | 21 | 35 | 22.5 | 4.9 | 3 | 6.7 | 22 | 13 | 23.3 | 0 | 1 | 4 | 22 | 50 | 24.1 | 0 | 17.9 | 1 | 23 | 28 | 24.9 | 1 | 7 | 8.8 | 24 | 5 | 25.8 | 2 |
| 56 | 5 | 4.9 | 20 | 12 | 20.8 | 4 | 3 | 5.6 | 20 | 49 | 21.5 | 4 | 2 | 3 | 21 | 26 | 22.3 | 5.5 | 0 | 0 | 22 | 3 | 23.1 | 6.5 | 8 | 7.7 | 22 | 39 | 23.9 | 7.6 | 6 | 4 | 23 | 16 | 24.8 | 8.7 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 11 26 56 } μ ARC 171° 44'.0 } 21° | | | | | | H. M. S. 11 30 37 } μ 22° 172° 39'.2 } | | | | | | H. M. S. 11 34 18 } μ 23° 173° 34'.4 } | | | | | | H. M. S. 11 37 58 } μ 24° 174° 29'.6 } | | | | | | H. M. S. 11 41 39 } μ 25° 175° 24'.7 } | | | | | | H. M. S. 11 45 19 } μ 26° 176° 19'.8 } | | | | | |
|--|----------|-------|-------|-------|-----------|--|-------|-------|-------|-----------|----------|--|-------|-------|-----------|----------|-------|--|-------|-----------|----------|-------|-------|--|-----------|----------|-------|-------|-------|--|----------|-------|-----|-------|-----------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | \simeq | μ | f | ν | \approx | \simeq | μ | f | ν | \approx | \simeq | μ | f | ν | \approx | \simeq | μ | f | ν | \approx | \simeq | μ | f | ν | \approx | \simeq | μ | f | ν | \approx | \simeq | μ | f | ν | \approx |
| 22 | 22.2 | 19.3 | 13.31 | 14.0 | 17.1 | 23.2 | 20.1 | 14.20 | 14.9 | 18.1 | 24.1 | 21.0 | 15.9 | 15.8 | 19.1 | 25.0 | 21.8 | 15.58 | 16.7 | 20.0 | 25.9 | 22.7 | 16.47 | 17.6 | 21.0 | 26.9 | 23.5 | 17.36 | 18.5 | 22.0 | | | | | |
| 23 | 2 | 1 | 13.5 | 13.7 | 0 | 1 | 19.9 | 13.54 | 6 | 0 | 0 | 20.7 | 14.43 | 5 | 18.9 | 24.9 | 6 | 15.31 | 4 | 19.9 | 9 | 4 | 16.20 | 3 | 20.9 | 8 | 3 | 17.9 | 2 | 21.9 | | | | | |
| 24 | 1 | 18.8 | 12.39 | 4 | 16.9 | 0 | 7 | 13.28 | 2 | 17.8 | 0 | 5 | 14.16 | 2 | 8 | 9 | 3 | 15.5 | 0 | 8 | 8 | 2 | 15.53 | 16.9 | 8 | 7 | 0 | 16.42 | 17.8 | 8 | | | | | |
| 25 | 0 | 6 | 12.13 | 0 | 8 | 0 | 4 | 13.1 | 13.9 | 7 | 23.9 | 3 | 13.49 | 14.8 | 7 | 8 | 1 | 14.38 | 15.7 | 7 | 7 | 2 | 19.15 | 26 | 6 | 7 | 6 | 22.8 | 16.15 | 5 | 7 | | | | |
| 26 | 0 | 4 | 11.46 | 12.7 | 6 | 22.9 | 2 | 12.34 | 6 | 6 | 8 | 0 | 13.22 | 5 | 6 | 7 | 20.9 | 14.10 | 4 | 6 | 7 | 7 | 14.58 | 3 | 6 | 26.6 | 5 | 15.47 | 2 | 6 | | | | | |
| 27 | 21.9 | 1 | 11.19 | 4 | 5 | 8 | 0 | 12.6 | 2 | 5 | 7 | 19.8 | 12.55 | 1 | 18.5 | 7 | 6 | 13.43 | 0 | 19.5 | 25.6 | 4 | 14.31 | 15.9 | 5 | 5 | 3 | 15.19 | 16.8 | 4 | | | | | |
| 28 | 9 | 17.9 | 10.51 | 0 | 16.4 | 8 | 18.7 | 11.39 | 12.9 | 17.4 | 7 | 5 | 12.27 | 13.8 | 3 | 24.6 | 4 | 13.15 | 14.7 | 3 | 5 | 2 | 14.3 | 6 | 20.3 | 4 | 0 | 14.50 | 5 | 21.3 | | | | | |
| 29 | 8 | 7 | 10.23 | 11.7 | 2 | 7 | 5 | 11.11 | 5 | 2 | 23.6 | 3 | 11.59 | 4 | 2 | 5 | 1 | 12.46 | 3 | 2 | 4 | 20.9 | 13.34 | 2 | 2 | 3 | 2 | 17.14 | 22 | 1 | 2 | | | | |
| 30 | 7 | 4 | 9.55 | 3 | 1 | 6 | 2 | 10.43 | 2 | 1 | 5 | 0 | 11.30 | 1 | 1 | 4 | 19.8 | 12.17 | 0 | 1 | 3 | 7 | 13.5 | 14.9 | 1 | 26.3 | 5 | 13.53 | 15.8 | 1 | | | | | |
| 31 | 6 | 2 | 9.27 | 10.9 | 0 | 22.5 | 0 | 10.14 | 11.8 | 0 | 5 | 18.8 | 11 | 1 | 12.7 | 17.9 | 4 | 6 | 11.48 | 13.6 | 18.9 | 25.3 | 4 | 12.35 | 5 | 0 | 2 | 2 | 13.23 | 4 | 0 | | | | |
| 32 | 21.6 | 16.9 | 8.57 | 6 | 15.8 | 5 | 17.7 | 9.44 | 5 | 16.8 | 4 | 5 | 10.31 | 3 | 8 | 3 | 3 | 11.19 | 2 | 8 | 2 | 1 | 12.6 | 1 | 19.8 | 1 | 20.9 | 12.53 | 0 | 20.8 | | | | | |
| 33 | 5 | 6 | 8.28 | 2 | 7 | 4 | 4 | 9.15 | 1 | 7 | 23.3 | 2 | 10.1 | 11.9 | 6 | 24.2 | 0 | 10.48 | 12.8 | 7 | 1 | 19.9 | 11.35 | 13.7 | 7 | 0 | 7 | 12.22 | 14.6 | 7 | | | | | |
| 34 | 4 | 4 | 7.58 | 9.8 | 5 | 3 | 2 | 8.45 | 10.7 | 5 | 2 | 0 | 9.31 | 5 | 5 | 1 | 18.8 | 10.18 | 4 | 5 | 0 | 6 | 11.4 | 3 | 5 | 25.9 | 4 | 11.51 | 2 | 5 | | | | | |
| 35 | 4 | 1 | 7.28 | 4 | 3 | 22.3 | 16.9 | 8.14 | 2 | 3 | 1 | 17.7 | 9 | 0 | 117.3 | 0 | 5 | 9.46 | 0 | 18.3 | 24.9 | 3 | 10.33 | 12.9 | 4 | 8 | 1 | 11.19 | 13.8 | 4 | | | | | |
| 36 | 3 | 15.9 | 6.57 | 8.9 | 2 | 2 | 6 | 7.43 | 9.8 | 2 | 0 | 4 | 8.29 | 10.7 | 2 | 0 | 2 | 9.15 | 11.5 | 2 | 8 | 0 | 10.1 | 4 | 2 | 7 | 19.8 | 10.47 | 3 | 2 | | | | | |
| 37 | 21.2 | 6 | 6.26 | 5 | 0 | 1 | 3 | 7.11 | 3 | 0 | 22.9 | 1 | 7.57 | 2 | 0 | 23.9 | 17.9 | 8.42 | 1 | 0 | 8 | 18.7 | 9.28 | 0 | 0 | 6 | 5 | 10.14 | 12.9 | 1 | | | | | |
| 38 | 1 | 4 | 5.53 | 0 | 14.8 | 0 | 1 | 6.39 | 8.9 | 15.8 | 8 | 16.9 | 7.24 | 9.7 | 16.8 | 8 | 6 | 8 | 9 | 10.6 | 17.8 | 7 | 4 | 8.55 | 11.5 | 18.9 | 25.6 | 2 | 9.40 | 4 | 19.9 | | | | |
| 39 | 1 | 1 | 5.21 | 7.5 | 6 | 21.9 | 15.8 | 6.6 | 4 | 6 | 7 | 6 | 6.51 | 3 | 6 | 7 | 4 | 7.36 | 1 | 7 | 24.6 | 2 | 8.21 | 0 | 7 | 5 | 0 | 9.6 | 11.9 | 7 | | | | | |
| 40 | 0 | 14.8 | 4.47 | 0 | 4 | 9 | 5 | 5.32 | 7.9 | 4 | 6 | 3 | 6.17 | 8.8 | 5 | 6 | 1 | 7.2 | 9.6 | 5 | 5 | 17.9 | 7.46 | 10.5 | 5 | 4 | 18.7 | 8.31 | 4 | 5 | | | | | |
| 41 | 20.9 | 5 | 4.13 | 6.5 | 2 | 8 | 2 | 4.58 | 4 | 2 | 22.6 | 15.9 | 5.42 | 2 | 3 | 5 | 16.8 | 6.27 | 1 | 3 | 4 | 6 | 7.11 | 0 | 3 | 3 | 4 | 7.56 | 10.9 | 3 | | | | | |
| 42 | 8 | 2 | 3.39 | 5.9 | 0 | 7 | 14.9 | 4.23 | 6.8 | 0 | 5 | 6 | 5.7 | 7.7 | 0 | 23.4 | 5 | 5.51 | 8.6 | 1 | 3 | 3 | 6.35 | 9.5 | 1 | 25.2 | 0 | 7.19 | 4 | 1 | | | | | |
| 43 | 7 | 13.9 | 3.3 | 4 | 13.8 | 21.6 | 6 | 3.47 | 3 | 14.8 | 5 | 3 | 4.30 | 1 | 15.8 | 3 | 2 | 5.14 | 0 | 16.8 | 24.2 | 16.9 | 5.58 | 8.9 | 17.9 | 1 | 17.7 | 6.42 | 9.8 | 18.9 | | | | | |
| 44 | 6 | 5 | 2.27 | 4.8 | 5 | 5 | 3 | 3.10 | 5.7 | 6 | 4 | 0 | 3.53 | 6.5 | 6 | 2 | 15.9 | 4.37 | 7.4 | 6 | 1 | 6 | 5.20 | 3 | 6 | 0 | 3.6 | 4 | 2 | 7 | | | | | |
| 45 | 20.6 | 2 | 1.50 | 2 | 3 | 4 | 0 | 2.33 | 1 | 4 | 22.3 | 14.7 | 3.16 | 5.9 | 4 | 1 | 5 | 3.58 | 6.8 | 4 | 0 | 2 | 4.41 | 7.7 | 4 | 24.9 | 0 | 5.25 | 8.6 | 6 | | | | | |
| 46 | 5 | 12.9 | 1.12 | 3.6 | 1 | 3 | 13.7 | 1.54 | 4.5 | 2 | 2 | 4 | 2.37 | 3 | 2 | 0 | 2 | 3.19 | 2 | 2 | 23.9 | 15.9 | 4 | 2 | 1 | 2 | 8 | 16.6 | 4.44 | 0 | 4 | | | | |
| 47 | 4 | 6 | 0.33 | 2.9 | 12.9 | 21.2 | 4 | 1.15 | 3.8 | 13.9 | 1 | 0 | 1.57 | 4.7 | 0 | 22.9 | 14.9 | 2.39 | 5.5 | 0 | 8 | 6 | 3.21 | 6.4 | 0 | 7 | 3 | 4 | 3 | 7.3 | 2 | | | | |
| 48 | 3 | 3 | 29.53 | 3 | 6 | 1 | 0 | 0.35 | 2 | 6 | 0 | 13.6 | 1.16 | 0 | 14.8 | 8 | 5 | 1.58 | 4.9 | 15.7 | 7 | 2 | 2.40 | 5.7 | 16.8 | 6 | 15.9 | 3.21 | 6.6 | 0 | | | | | |
| 49 | 20.2 | 11.9 | 29.12 | 1.6 | 3 | 0 | 12.6 | 29.53 | 2.5 | 4 | 21.9 | 3 | 0.34 | 3.3 | 5 | 7 | 1 | 1.15 | 2 | 5 | 6 | 14.8 | 1.57 | 1 | 5 | 24.4 | 5 | 2.38 | 0 | 17.7 | | | | | |
| 50 | 1 | 5 | 28.30 | 0.9 | 0 | 20.9 | 2 | 29.11 | 1.8 | 1 | 8 | 12.9 | 29.51 | 2.6 | 2 | 6 | 13.7 | 0.32 | 3.5 | 2 | 5 | 4 | 1.13 | 4.4 | 3 | 3 | 1 | 1.54 | 5.3 | 4 | | | | | |
| 51 | 0 | 1 | 27.48 | 1 | 11.7 | 8 | 11.8 | 28.27 | 0 | 12.8 | 7 | 5 | 29.7 | 1.8 | 13.9 | 5 | 3 | 29.47 | 2.7 | 14.9 | 23.4 | 0 | 0.28 | 3.6 | 0 | 2 | 14.7 | 1 | 8 | 4.5 | 1 | | | | |
| 52 | 19.9 | 10.7 | 27.3 | 29.3 | 4 | 7 | 4 | 27.42 | 0.2 | 5 | 6 | 1 | 28.22 | 0 | 6 | 22.4 | 12.9 | 29.2 | 1.9 | 6 | 3 | 13.6 | 29.41 | 2.8 | 15.7 | 1 | 3 | 0.21 | 3.7 | 16.8 | | | | | |
| 53 | 8 | 3 | 26.18 | 28.5 | 1 | 6 | 0 | 26.56 | 29.3 | 1 | 21.5 | 11.7 | 27.35 | 0.2 | 2 | 3 | 5 | 28.14 | 0 | 3 | 2 | 2 | 28.53 | 1.9 | 4 | 23.9 | 13.9 | 29.33 | 2.8 | 5 | | | | | |
| 54 | 7 | 9.9 | 25.31 | 27.6 | 10.7 | 20.5 | 10.6 | 26.9 | 28.4 | 11.7 | 4 | 3 | 26.47 | 29.2 | 12.8 | 2 | 1 | 27.26 | 0.1 | 13.9 | 0 | 12.8 | 28.4 | 0.9 | 0 | 8 | 5 | 28.43 | 1.8 | 1 | | | | | |
| 55 | 6 | 5 | 24.43 | 26.6 | 3 | 4 | 2 | 25.20 | 27.4 | 3 | 2 | 10.9 | 25.58 | 28.2 | 4 | 0 | 11.6 | 26.36 | 29.1 | 5 | 22.8 | 3 | 27.13 | 29.9 | 14.6 | 6 | 0 | 27.51 | 0.7 | 15.7 | | | | | |
| 56 | 5 | 1 | 23.53 | 25.5 | 9.8 | 3 | 9.8 | 24.30 | 26.3 | 10.9 | 1 | 4 | 25.7 | 27.1 | 0 | 21.9 | 1 | 25.44 | 28.0 | 1 | 7 | 11.8 | 26.21 | 28.8 | 2 | 5 | 12.5 | 26.58 | 29.6 | 3 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 11 45 19 } μ ARC 176° 19'.8 } $\simeq 26^\circ$ | | | | | | H. M. S. 11 48 59 } μ 27° 177° 14'.8 } | | | | | | H. M. S. 11 52 40 } μ 28° 178° 9'.9 } | | | | | | H. M. S. 11 56 20 } μ 29° 179° 5'.0 } | | | | | | H. M. S. 12 0 0 } $\simeq 0^\circ$ 180° 0'.0 } | | | | | | H. M. S. 12 3 40 } $\simeq 1^\circ$ 180° 55'.0 } | | | | | |
|--|----------|---------|-------|-------|----------|--|-----------|-------|-------|----------|----------|---|---------|-------|----------|----------|---------|---|---------|----------|---------------|---------|---------|--|----------|----------|------------|---------|-------|--|----------|-------|-----|-------|----------|
| 11 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | \simeq | μ | f | μ | \simeq | \simeq | μ | f | μ | \simeq | \simeq | μ | f | μ | \simeq | \simeq | μ | f | μ | \simeq | \simeq | μ | f | μ | \simeq | \simeq | μ | f | μ | \simeq | \simeq | μ | f | μ | \simeq |
| 22 | 26.9 | 23.5 | 17 36 | 18.5 | 22.0 | 27.8 | 24.3 | 18 24 | 19.4 | 23.0 | 28.7 | 25.2 | 19 14 | 20.3 | 24.0 | 29.7 | 26.0 | 20 3 | 21.2 | 25.0 | 0.6 | 26.8 | 20 52 | 22.1 | 26.0 | 1.5 | 27.7 | 21 41 | 23.0 | 27.0 | | | | | |
| 23 | 8 | 3 17 9 | 2 | 21.9 | | 7 | 1 17 57 | 1 | 22.9 | | 6 | 24.9 | 18 47 | 0 | 23.9 | | 6 | 25.8 | 19 36 | 20.9 | 24.9 | 5 | 6 20 25 | 21.8 | 25.9 | 4 | 4 21 14 | 22.7 | 26.9 | | | | | | |
| 24 | 7 | 0 16 42 | 17.8 | 8 | | 7 | 23.8 | 17 30 | 18.7 | 8 | 6 | 7 18 19 | 19.6 | 8 | | 5 | 5 19 8 | 5 | 8 | | 4 | 3 19 57 | 4 | 8 | 3 | 2 20 46 | 4 | 8 | | | | | | | |
| 25 | 6 | 22.8 | 16 15 | 5 | 7 | 6 | 6 17 3 | 4 | 7 | | 5 | 4 17 52 | 3 | 7 | | 4 | 2 18 40 | 2 | 7 | | 3 | 1 19 29 | 1 | 7 | 2 | 26.9 | 20 18 | 0 | 7 | | | | | | |
| 26 | 26.6 | 5 15 47 | 2 | 6 | | 27.5 | 3 16 35 | 1 | 6 | | 4 | 2 17 24 | 0 | 6 | | 3 | 0 18 12 | 19.9 | 6 | | 0.2 | 25.8 | 19 1 | 20.8 | 6 | 1.1 | 6 19 50 | 21.7 | 6 | | | | | | |
| 27 | 5 | 3 15 19 | 16.8 | 4 | | 4 | 1 16 7 | 17.7 | 5 | | 28.3 | 23.9 | 16 55 | 18.6 | 5 | | 29.3 | 24.7 | 17 44 | 5 | 5 | 2 | 5 18 33 | 4 | 5 | 0 | 4 19 21 | 4 | 5 | | | | | | |
| 28 | 4 | 0 14 50 | 5 | 21.3 | | 3 | 22.8 | 15 38 | 4 | 22.3 | | 3 | 6 16 26 | 3 | 23.3 | | 2 | 4 17 15 | 2 | 24.4 | | 1 | 3 18 4 | 1 | 25.4 | 0 | 1 18 51 | 0 | 26.4 | | | | | | |
| 29 | 3 | 21.7 | 14 22 | 1 | 2 | 3 | 5 15 9 | 0 | 2 | | 2 | 4 15 57 | 17.9 | 2 | | 1 | 2 16 45 | 18.9 | 3 | | 0 | 0 17 34 | 19.8 | 3 | 0.9 | 25.8 | 18 22 | 20.7 | 3 | | | | | | |
| 30 | 26.3 | 5 13 53 | 15.8 | 1 | 27.2 | | 3 14 40 | 16.7 | 1 | | 1 | 1 15 28 | 6 | 1 | | 0 | 23.9 | 16 16 | 5 | 2 | \simeq 29.9 | 24.7 | 17 4 | 4 | 2 | 8 | 5 17 52 | 3 | 2 | | | | | | |
| 31 | 2 | 2 13 23 | 4 | 0 | | 1 | 0 14 10 | 3 | 0 | | 0 | 22.8 | 14 58 | 2 | 0 | | 28.9 | 6 15 45 | 1 | 0 | | 8 | 4 16 34 | 0 | 1 | 7 | 2 17 21 | 0 | 0 | | | | | | |
| 32 | 1 | 20.9 | 12 53 | 0 | 20.8 | | 0 21.7 | 13 39 | 15.9 | 21.8 | | 27.9 | 5 14 27 | 16.8 | 22.8 | | 8 | 3 15 15 | 17.8 | 23.9 | | 7 | 2 16 3 | 18.7 | 0 | 6 | 0 16 50 | 19.6 | 25.9 | | | | | | |
| 33 | 0 | 7 12 22 | 14.6 | 7 | | 26.9 | 5 13 9 | 5 | 7 | | 8 | 2 13 56 | 4 | 7 | | 7 | 1 14 43 | 4 | 8 | | 6 | 23.9 | 15 31 | 3 | 24.8 | 5 | 24.7 | 16 18 | 2 | 8 | | | | | |
| 34 | 25.9 | 4 11 51 | 2 | 5 | | 8 | 2 12 38 | 1 | 5 | | 7 | 0 13 24 | 0 | 6 | | 6 | 22.8 | 14 11 | 0 | 6 | | 5 | 6 14 59 | 17.9 | 7 | 0.4 | 4 15 45 | 18.8 | 6 | | | | | | |
| 35 | 8 | 1 11 19 | 13.8 | 4 | | 7 | 20.9 | 12 6 | 14.7 | 4 | | 6 | 21.7 | 12 52 | 15.6 | 4 | | 5 | 5 13 39 | 16.6 | 5 | 29.4 | 3 14 26 | 5 | 6 | 3 | 1 15 13 | 4 | 5 | | | | | | |
| 36 | 7 | 19.8 | 10 47 | 3 | 2 | 6 | 6 11 33 | 2 | 2 | | 5 | 4 12 19 | 1 | 2 | | 28.4 | 2 13 6 | 1 | 23.3 | | 3 | 0 13 52 | 0 | 4 | 2 | 23.8 | 14 39 | 17.9 | 25.3 | | | | | | |
| 37 | 6 | 5 10 14 | 12.9 | 1 | | 5 | 3 11 0 | 13.8 | 1 | | 27.4 | 1 11 46 | 14.7 | 1 | | 3 | 21.9 | 12 32 | 15.7 | 2 | | 2 | 22.7 | 13 18 | 16.6 | 3 | \simeq 1 | 4 14 5 | 5 | 2 | | | | | |
| 38 | 25.6 | 2 9 40 | 4 | 19.9 | | 26.4 | 0 10 26 | 3 | 20.9 | | 3 | 20.8 | 11 12 | 2 | 21.9 | | 2 | 6 11 58 | 2 | 0 | | 1 | 3 12 44 | 1 | 1 | 29.9 | 1 13 30 | 0 | 0 | | | | | | |
| 39 | 5 | 0 9 6 | 11.9 | 7 | | 3 | 19.7 | 9 52 | 12.8 | 7 | | 2 | 5 10 37 | 13.7 | 8 | | 1 | 3 11 23 | 14.7 | 22.9 | | 0 | 0 12 8 | 15.6 | 23.9 | 8 | 22.8 | 12 54 | 16.5 | 24.9 | | | | | |
| 40 | 4 | 18.7 | 8 31 | 4 | 5 | 2 | 4 9 16 | 3 | 6 | | 1 | 1 10 1 | 2 | 6 | | 0 | 0 10 47 | 2 | 7 | | 28.9 | 21.7 | 11 32 | 1 | 7 | 7 | 5 12 17 | 0 | 8 | | | | | | |
| 41 | 3 | 4 7 56 | 10.9 | 3 | | 1 | 0 8 40 | 11.8 | 4 | | 0 | 19.8 | 9 25 | 12.7 | 4 | | 27.9 | 20.7 | 10 10 | 13.7 | 6 | | 8 | 3 10 55 | 14.6 | 6 | 6 | 1 11 40 | 15.5 | 6 | | | | | |
| 42 | 25.2 | 0 7 19 | 4 | 1 | | 0 | 18.7 | 8 4 | 3 | 2 | | 26.9 | 5 8 48 | 2 | 2 | | 8 | 3 9 32 | 1 | 4 | | 6 | 0 10 17 | 1 | 4 | 5 | 21.7 | 11 2 | 0 | 4 | | | | | |
| 43 | 1 | 17.7 | 6 42 | 9.8 | 18.9 | 25.9 | 4 7 26 | 10.7 | 0 | | 8 | 1 8 10 | 11.6 | 1 | | 6 | 0 8 54 | 12.6 | 2 | | 5 | 20.7 | 9 38 | 13.5 | 2 | 29.4 | 4 10 22 | 14.4 | 2 | | | | | | |
| 44 | 0 | 3 6 4 | 2 | 7 | | 8 | 0 6 47 | 1 | 19.9 | | 7 | 18.8 | 7 31 | 0 | 20.9 | | 5 | 19.6 | 8 15 | 0 | 0 | | 28.4 | 4 8 59 | 12.9 | 0 | 2 | 0 9 42 | 13.8 | 0 | | | | | |
| 45 | 24.9 | 0 5 25 | 8.6 | 6 | | 7 | 17.7 | 6 8 | 9.5 | 7 | | 6 | 5 6 51 | 10.4 | 7 | | 4 | 2 7 34 | 11.4 | 21.8 | | 3 | 0 8 18 | 3 | 22.8 | 1 | 20.6 | 9 1 | 2 | 23.8 | | | | | |
| 46 | 8 | 16.6 | 4 44 | 0 | 4 | 6 | 4 5 27 | 8.9 | 5 | | 5 | 2 6 10 | 9.7 | 5 | | 27.3 | 18.9 | 6 53 | 10.7 | 6 | | 2 | 19.6 | 7 36 | 11.7 | 5 | 0 | 3 8 19 | 12.6 | 6 | | | | | |
| 47 | 7 | 3 4 3 | 7.3 | 2 | | 5 | 1 4 46 | 2 | 3 | | 26.4 | 17.8 | 5 28 | 1 | 3 | | 2 | 5 6 10 | 1 | 4 | | 1 | 2 6 53 | 0 | 3 | 28.9 | 19.9 | 7 36 | 11.9 | 5 | | | | | |
| 48 | 6 | 15.9 | 3 21 | 6.6 | 0 | 25.4 | 16.7 | 4 3 | 7.5 | 1 | | 3 | 4 4 45 | 8.4 | 1 | | 1 | 1 5 27 | 9.4 | 2 | | 27.9 | 18.8 | 6 9 | 10.3 | 1 | 8 | 5 6 52 | 2 | 3 | | | | | |
| 49 | 24.4 | 5 2 38 | 0 | 17.7 | | 3 | 3 3 19 | 6.8 | 18.8 | | 1 | 0 4 1 | 7.7 | 19.8 | | 0 | 17.7 | 4 42 | 8.7 | 20.9 | | 8 | 4 5 24 | 9.6 | 21.9 | 6 | 1 6 6 | 10.5 | 1 | | | | | | |
| 50 | 3 | 1 1 54 | 5.3 | 4 | | 1 | 15.9 | 2 34 | 1 | 5 | | 0 | 16.6 | 3 15 | 0 | 5 | | 26.8 | 3 3 56 | 7.9 | 6 | | 7 | 0 4 38 | 8.8 | 7 | 5 18.7 | 5 19 | 9.7 | 22.9 | | | | | |
| 51 | 2 | 14.7 | 1 8 | 4.5 | 1 | 0 | 5 1 48 | 5.3 | 2 | | 25.8 | 2 2 29 | 6.2 | 2 | | 6 | 16.9 | 3 9 | 1 | 4 | | 6 | 17.6 | 3 50 | 0 | 4 | 28.3 | 3 4 30 | 8.9 | 6 | | | | | |
| 52 | 1 | 3 0 21 | 3.7 | 16.8 | | 24.9 | 1 1 1 | 4.5 | 17.9 | | 7 | 15.8 | 1 40 | 5.4 | 18.9 | | 5 | 5 2 20 | 6.3 | 1 | | 27.4 | 2 3 1 | 7.1 | 1 | 1 | 17.9 | 3 40 | 0 | 3 | | | | | |
| 53 | 23.9 | 13.9 | 29 33 | 2.8 | 5 | | 8 14.6 | 0 12 | 3.6 | 6 | | 6 | 3 0 51 | 4.5 | 6 | | 4 | 0 1 30 | 5.4 | 19.8 | | 2 | 16.7 | 2 10 | 6.2 | 20.8 | 0 | 4 2 49 | 7.1 | 0 | | | | | |
| 54 | 8 | 5 28 43 | 1.8 | 1 | | 6 | 1 29 21 | 2.6 | 2 | | 5 | 14.8 | 0 0 | 3.5 | 3 | | 3 | 15.5 | 0 38 | 4.4 | 4 | | 0 | 2 1 17 | 5.2 | 5 | 27.9 | 16.9 | 1 56 | 6.1 | 21.7 | | | | |
| 55 | 6 | 0 27 51 | 0.7 | 15.7 | | 4 | 13.6 | 28 29 | 1.6 | 16.8 | | 3 | 3 29 7 | 2.5 | 0 | | 1 | 0 29 45 | 3.3 | 1 | | 26.9 | 15.7 | 0 23 | 4.2 | 2 | 7 | 4 1 1 | 5.1 | 4 | | | | | |
| 56 | 5 | 12.5 | 26 58 | 29.6 | 3 | | 3 1 27 35 | 0.5 | 4 | | 2 | 13.8 | 28 13 | 1.4 | 17.6 | | 25.9 | 14.5 | 28 50 | 2.2 | 18.7 | | 7 | 2 29 28 | 3.0 | 19.9 | 5 | 15.9 | 0 5 | 4.0 | 1 | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 12 7 20 } $\approx 2^\circ$ ARC 181° 50'.1 | | | | | | H. M. S. 12 11 1 } $\approx 3^\circ$ 182° 45'.2 | | | | | | H. M. S. 12 14 41 } $\approx 4^\circ$ 183° 40'.2 | | | | | | H. M. S. 12 18 21 } $\approx 5^\circ$ 184° 35'.3 | | | | | | H. M. S. 12 22 2 } $\approx 6^\circ$ 185° 30'.4 | | | | | | H. M. S. 12 25 42 } $\approx 7^\circ$ 186° 25'.6 | | | | | | |
|---|------|------|-------|------|------|---|------|-------|-------|------|------|--|-------|-------|-------|------|------|--|-------|-------|-------|------|-------|---|-------|-------|------|-------|-------|--|-------|------|------|-----|---|--|
| II. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | m | m | f | W | X | m | m | f | W | X | m | f | f | W | X | m | f | f | W | X | m | f | f | W | X | m | f | f | W | X | m | f | f | W | X | |
| 22 | 2.4 | 28.5 | 22.31 | 23.9 | 28.0 | 3.3 | 29.3 | 23.20 | 24.8 | 29.0 | 4.2 | 0.2 | 24.10 | 25.7 | 0.0 | 5.1 | 1.0 | 24.59 | 26.6 | 1.1 | 6.0 | 1.8 | 25.49 | 27.6 | 2.1 | 6.9 | 2.6 | 26.40 | 28.5 | 3.1 | | | | | | |
| 23 | 3 | 222 | 3 | 6 | 27.9 | 2 | 122 | 53 | 5 | 28.9 | 1 | 29.9 | 23.42 | 4 | 29.9 | 0 | 0.7 | 24.31 | 3 | 0 | 5.9 | 5 | 25.21 | 3 | 0 | 8 | 4 | 26.11 | 2 | 0 | | | | | | |
| 24 | 2 | 021 | 35 | 3 | 8 | 1 | 28.8 | 22.25 | 2 | 8 | 0 | 6 | 23.14 | 1 | 9 | 4.9 | 5 | 24.3 | 0 | 0.9 | 8 | 3 | 24.53 | 0 | 1.9 | 7 | 1 | 25.43 | 27.9 | 2.9 | | | | | | |
| 25 | 1 | 27.7 | 21 | 7 | 22.9 | 7 | 0 | 621 | 56 | 23.9 | 7 | 3.9 | 4 | 22.45 | 24.8 | 8 | 8 | 2 | 23.35 | 25.7 | 8 | 7 | 0 | 24.24 | 26.6 | 8 | 6 | 1.8 | 25.14 | 6 | 8 | | | | | |
| 26 | 0 | 5 | 20 | 38 | 6 | 6 | 2.9 | 3 | 21 | 27 | 5 | 6 | 8 | 1 | 22.17 | 4 | 7 | 7 | 29.9 | 23.6 | 4 | 7 | 6 | 0.7 | 23.55 | 3 | 7 | 5 | 5 | 24.45 | 3 | 7 | | | | |
| 27 | 1.9 | 2 | 20 | 9 | 3 | 5 | 8 | 0 | 20 | 58 | 2 | 5 | 7 | 28.8 | 21.47 | 1 | 6 | 6 | 6 | 22.36 | 0 | 6 | 5 | 4 | 23.26 | 0 | 6 | 6.4 | 3 | 24.15 | 26.9 | 7 | | | | |
| 28 | 8 | 26.9 | 19.40 | 21.9 | 27.4 | 7 | 27.7 | 20.29 | 22.9 | 28.4 | 6 | 5 | 21 | 18 | 23.8 | 29.5 | 5 | 4 | 22 | 6 | 24.7 | 5 | 5.4 | 2 | 22.56 | 25.7 | 5 | 3 | 0 | 23.45 | 6 | 2.6 | | | | |
| 29 | 7 | 6 | 19 | 10 | 6 | 3 | 6 | 4 | 19 | 59 | 5 | 3 | 5 | 3 | 20.47 | 4 | 3 | 4.4 | 1 | 21.36 | 4 | 0.4 | 3 | 29.9 | 22.25 | 3 | 1.4 | 2 | 0.7 | 23.14 | 3 | 5 | | | | |
| 30 | 7 | 3 | 18 | 40 | 3 | 2 | 5 | 2 | 19 | 28 | 2 | 2 | 3.4 | 0 | 20.17 | 1 | 2 | 3 | 28.8 | 21.5 | 0 | 3 | 2 | 6 | 21.54 | 0 | 3 | 1 | 4 | 22.43 | 25.9 | 4 | | | | |
| 31 | 6 | 1 | 18 | 9 | 20.9 | 1 | 2.4 | 26.9 | 18.57 | 21.8 | 1 | 3 | 27.7 | 19.45 | 22.8 | 1 | 2 | 5 | 20.34 | 23.7 | 2 | 1 | 3 | 21.22 | 24.6 | 2 | 0 | 1 | 22.11 | 6 | 3 | | | | | |
| 32 | 1.5 | 25.8 | 17.37 | 5 | 26.9 | 3 | 6 | 18 | 26 | 4 | 0 | 2 | 4 | 19.14 | 4 | 0 | 1 | 2 | 20.1 | 3 | 1 | 0 | 0 | 20.50 | 3 | 1 | 5.8 | 29.8 | 21.38 | 2 | 2.2 | | | | | |
| 33 | 4 | 5 | 17 | 5 | 1 | 8 | 2 | 3 | 17 | 53 | 0 | 27.8 | 1 | 1 | 18.41 | 0 | 28.9 | 0 | 27.9 | 19.29 | 22.9 | 0 | 4.9 | 28.7 | 20.17 | 23.9 | 0 | 7 | 5 | 21 | 5 | 24.8 | 1 | | | |
| 34 | 3 | 2 | 16 | 33 | 19.7 | 7 | 1 | 0 | 17 | 20 | 20.6 | 7 | 0 | 26.8 | 18.8 | 21.6 | 8 | 3.9 | 6 | 18.56 | 5 | 29.8 | 7 | 4 | 19.44 | 5 | 0.9 | 6 | 2 | 20.32 | 4 | 0 | | | | |
| 35 | 1 | 24.9 | 15.59 | 3 | 5 | 0 | 25.7 | 16.47 | 2 | 6 | 2.9 | 5 | 17 | 34 | 2 | 6 | 8 | 2 | 18.22 | 1 | 7 | 6 | 0 | 19.9 | 0 | 8 | 5 | 28.8 | 19.57 | 0 | 1.9 | | | | | |
| 36 | 0 | 5 | 15 | 26 | 18.9 | 26.4 | 1.9 | 3 | 16 | 13 | 19.8 | 5 | 8 | 1 | 17 | 0 | 20.7 | 5 | 6 | 26.9 | 17.47 | 21.7 | 6 | 5 | 27.7 | 18.35 | 22.6 | 7 | 5.4 | 5 | 19 | 22 | 23.5 | 7 | | |
| 37 | 0.9 | 2 | 14 | 51 | 4 | 2 | 8 | 0 | 15 | 38 | 3 | 27.3 | 6 | 25.8 | 16.25 | 3 | 28.4 | 5 | 6 | 17.12 | 2 | 5 | 4.4 | 4 | 17.59 | 1 | 5 | 3 | 2 | 18.47 | 1 | 6 | | | | |
| 38 | 8 | 23.9 | 14.16 | 17.9 | 1 | 7 | 24.7 | 15.2 | 18.9 | 2 | 5 | 5 | 15 | 49 | 19.8 | 2 | 3.4 | 3 | 16.36 | 20.7 | 29.3 | 3 | 0 | 17.23 | 21.7 | 0.4 | 1 | 27.8 | 18.10 | 22.6 | 5 | | | | | |
| 39 | 7 | 6 | 13 | 40 | 5 | 0 | 6 | 4 | 14 | 26 | 4 | 0 | 2.4 | 1 | 15.12 | 3 | 1 | 3 | 25.9 | 15.59 | 2 | 2 | 2 | 26.7 | 16.46 | 2 | 3 | 0 | 5 | 17.32 | 1 | 1.4 | | | | |
| 40 | 6 | 3 | 13 | 3 | 0 | 25.9 | 1.4 | 1 | 13 | 49 | 17.9 | 26.9 | 3 | 24.8 | 14.35 | 18.8 | 0 | 2 | 6 | 15.21 | 19.7 | 1 | 0 | 4 | 16 | 7 | 20.7 | 2 | 4.9 | 2 | 16.54 | 21.6 | 2 | | | |
| 41 | 5 | 0 | 12 | 25 | 16.4 | 7 | 3 | 23.8 | 13.11 | 4 | 7 | 2 | 4 | 13.57 | 3 | 27.9 | 0 | 2 | 14.42 | 2 | 28.9 | 3.9 | 0 | 15.28 | 2 | 0 | 8 | 26.9 | 16.15 | 1 | 1 | | | | | |
| 42 | 0.3 | 22.6 | 11.47 | 15.9 | 5 | 2 | 4 | 12 | 32 | 16.8 | 5 | 0 | 1 | 13 | 17 | 17.8 | 7 | 2.9 | 24.8 | 14 | 3 | 18.7 | 8 | 8 | 25.6 | 14.48 | 19.6 | 29.9 | 6 | 5 | 15 | 34 | 20.6 | 0.9 | | |
| 43 | 2 | 3 | 11 | 7 | 3 | 3 | 1 | 0 | 11 | 52 | 3 | 4 | 1.9 | 23.7 | 12.37 | 2 | 5 | 8 | 5 | 13.22 | 1 | 6 | 6 | 3 | 14 | 7 | 1 | 7 | 5 | 1 | 14.53 | 0 | 8 | | | |
| 44 | 1 | 21.9 | 10.27 | 14.7 | 1 | 0.9 | 22.7 | 11.11 | 15.7 | 2 | 8 | 3 | 11 | 56 | 16.6 | 4 | 6 | 1 | 12.40 | 17.5 | 4 | 5 | 24.9 | 13.25 | 18.5 | 6 | 4.3 | 25.7 | 14.10 | 19.4 | 6 | | | | | |
| 45 | 0 | 5 | 9 | 45 | 1 | 24.9 | 8 | 3 | 10 | 29 | 1 | 0 | 6 | 22.9 | 11.13 | 0 | 2 | 5 | 23.7 | 11.58 | 16.9 | 3 | 3.3 | 5 | 12.42 | 17.8 | 4 | 2 | 3 | 13 | 27 | 18.8 | 5 | | | |
| 46 | 29.9 | 1 | 9 | 3 | 13.5 | 8 | 7 | 21.9 | 9.46 | 14.4 | 25.8 | 5 | 5 | 10 | 30 | 15.3 | 0 | 2.3 | 3 | 11.14 | 3 | 1 | 2 | 1 | 11.58 | 2 | 2 | 0 | 24.9 | 12.42 | 1 | 0.3 | | | | |
| 47 | 8 | 20.7 | 8.19 | 12.8 | 6 | 6 | 5 | 9 | 2 | 13.7 | 7 | 1.3 | 1 | 9.45 | 14.6 | 26.8 | 2 | 22.9 | 10.29 | 15.6 | 27.9 | 1 | 23.7 | 11.12 | 16.5 | 0 | 3.9 | 5 | 11 | 56 | 17.5 | 1 | | | | |
| 48 | 6 | 3 | 7 | 34 | 1 | 4 | 0.4 | 1 | 8 | 16 | 0 | 5 | 2 | 21.7 | 8.59 | 13.9 | 6 | 1 | 5 | 9.42 | 14.9 | 7 | 2.9 | 3 | 10.25 | 15.8 | 28.8 | 8 | 1 | 11 | 9 | 16.8 | 0 | | | |
| 49 | 5 | 19.9 | 6.48 | 11.4 | 2 | 3 | 20.7 | 7.30 | 12.3 | 3 | 1 | 3 | 8 | 12 | 2 | 4 | 1.9 | 1 | 8.54 | 2 | 5 | 8 | 22.9 | 9.37 | 1 | 6 | 6 | 23.6 | 10.20 | 0 | 29.8 | | | | | |
| 50 | 3 | 5 | 6 | 0 | 10.6 | 0 | 2 | 2 | 6.41 | 11.5 | 1 | 0 | 20.9 | 7.23 | 12.5 | 2 | 8 | 21.6 | 8 | 5 | 13.4 | 3 | 6 | 4 | 8.47 | 14.4 | 4 | 4 | 1 | 9 | 29 | 15.3 | 6 | | | |
| 51 | 1 | 1 | 5 | 11 | 9.8 | 23.7 | 0 | 19.8 | 5.52 | 10.7 | 24.9 | 0.9 | 5 | 6 | 33 | 11.7 | 25.9 | 6 | 2 | 7 | 15 | 12.6 | 1 | 4 | 21.9 | 7.56 | 13.6 | 2 | 2 | 22.6 | 8.38 | 14.5 | 3 | | | |
| 52 | 28.9 | 18.6 | 4.21 | 8.9 | 4 | 29.9 | 3 | 5 | 1 | 9.8 | 6 | 7 | 0 | 5.41 | 10.8 | 6 | 4 | 20.7 | 6.22 | 11.7 | 26.8 | 2 | 4 | 7 | 3 | 12.7 | 0 | 0 | 1 | 7.44 | 13.6 | 1 | | | | |
| 53 | 8 | 1 | 3 | 29 | 0 | 1 | 7 | 18.8 | 4 | 8 | 8.9 | 3 | 5 | 19.5 | 4.48 | 9.9 | 3 | 2 | 2 | 5.29 | 10.8 | 6 | 0 | 20.9 | 6 | 8 | 11.7 | 27.8 | 2.9 | 21.6 | 6.49 | 12.7 | 28.8 | | | |
| 54 | 6 | 17.6 | 2.35 | 7.0 | 22.8 | 5 | 3 | 3 | 14 | 7.9 | 0 | 3 | 0 | 3.53 | 8.9 | 1 | 1 | 19.7 | 4.33 | 9.8 | 3 | 1.9 | 4 | 5 | 12 | 10.7 | 5 | 7 | 1 | 5 | 52 | 11.7 | 6 | | | |
| 55 | 5 | 1 | 1 | 40 | 6.0 | 5 | 3 | 17.8 | 2.18 | 6.9 | 23.7 | 1 | 18.5 | 2.56 | 7.8 | 24.8 | 0.9 | 2 | 3 | 35 | 8.7 | 0 | 7 | 19.9 | 4.14 | 9.6 | 2 | 5 | 20.5 | 4 | 53 | 10.6 | 3 | | | |
| 56 | 3 | 16.6 | 0.42 | 4.9 | 2 | 1 | 3 | 1 | 20 | 5.7 | 4 | 29.9 | 17.9 | 1.58 | 6.6 | 5 | 6 | 18.6 | 2.36 | 7.5 | 25.7 | 5 | 3 | 3 | 14 | 8.4 | 26.8 | 3 | 19.9 | 3 | 52 | 9.4 | 0 | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 12 25 42 } $\approx 7^\circ$ ARC 186° 25'.6 | | | | | | H. M. S. 12 29 23 } $\approx 8^\circ$ 187° 20'.8 | | | | | | H. M. S. 12 33 4 } $\approx 9^\circ$ 188° 16'.0 | | | | | | H. M. S. 12 36 45 } $\approx 10^\circ$ 189° 11'.3 | | | | | | H. M. S. 12 40 27 } $\approx 11^\circ$ 190° 6'.6 | | | | | | H. M. S. 12 44 8 } $\approx 12^\circ$ 191° 2'.0 | | | | | |
|--|-----|------|-------|------|------|--|------|-------|------|------|-----|---|-------|------|-----|-----|------|---|------|-----|------|------|-------|--|-----|------|------|-------|------|---|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 |
| Lat. | m | f | f | v | x | m | f | f | v | x | m | f | f | v | x | m | f | f | v | x | m | f | v | v | x | m | f | v | v | x | m | f | v | v | x |
| 22 | 6.9 | 2.6 | 26.40 | 28.5 | 3.1 | 7.8 | 3.5 | 27.29 | 29.4 | 4.1 | 8.7 | 4.3 | 28.20 | 0.4 | 5.1 | 9.6 | 5.1 | 29.10 | 1.3 | 6.2 | 10.5 | 5.9 | 0.1 | 2.3 | 7.2 | 11.4 | 6.8 | 0.52 | 3.2 | 8.2 | | | | | |
| 23 | 8 | 4 | 26.11 | 2 | 0 | 7 | 2 | 27.1 | 1 | 0 | 6 | 0 | 27.52 | 1 | 1 | 5 | 4.8 | 28.42 | 0 | 1 | 4 | 7 | 29.32 | 0 | 1 | 3 | 5 | 0.23 | 2.9 | 2 | | | | | |
| 24 | 7 | 1 | 25.43 | 27.9 | 2.9 | 6 | 2.9 | 26.33 | 28.8 | 0 | 5 | 3.7 | 27.23 | 29.8 | 0 | 4 | 6 | 28.13 | 0.7 | 0 | 3 | 4 | 29.4 | 1.7 | 1 | 1 | 2 | 29.54 | 6 | 1 | | | | | |
| 25 | 6 | 1.8 | 25.14 | 6 | 8 | 5 | 6 | 26.4 | 5 | 3.9 | 4 | 5 | 26.54 | 5 | 4.9 | 3 | 3 | 27.44 | 4 | 0 | 1 | 1 | 28.34 | 4 | 0 | 0 | 5.9 | 29.25 | 3 | 0 | | | | | |
| 26 | 5 | 5 | 24.45 | 3 | 7 | 7.4 | 4 | 25.34 | 2 | 8 | 8.3 | 2 | 26.24 | 1 | 8 | 1 | 0 | 27.14 | 1 | 5.9 | 0 | 4.8 | 28.5 | 1 | 6.9 | 10.9 | 6 | 28.55 | 0 | 0 | | | | | |
| 27 | 6.4 | 3 | 24.15 | 26.9 | 7 | 3 | 1 | 25.4 | 27.9 | 7 | 2 | 2.9 | 25.54 | 28.8 | 7 | 0 | 3.7 | 26.44 | 29.8 | 8 | 9.9 | 5 | 27.34 | 0.7 | 8 | 8 | 3 | 28.25 | 1.7 | 7.9 | | | | | |
| 28 | 3 | 0 | 23.45 | 6 | 2.6 | 2 | 1.8 | 24.34 | 5 | 6 | 0 | 6 | 25.24 | 5 | 7 | 8.9 | 4 | 26.14 | 5 | 7 | 8 | 2 | 27.4 | 4 | 8 | 7 | 0 | 27.54 | 4 | 8 | | | | | |
| 29 | 2 | 0.7 | 23.14 | 3 | 5 | 1 | 5 | 24.3 | 2 | 5 | 7.9 | 3 | 24.53 | 2 | 4.6 | 8 | 1 | 25.42 | 1 | 6 | 7 | 3.9 | 26.32 | 1 | 7 | 6 | 4.7 | 27.22 | 1 | 7 | | | | | |
| 30 | 1 | 4 | 22.43 | 25.9 | 4 | 6.9 | 2 | 23.32 | 26.9 | 3.4 | 8 | 0 | 24.21 | 27.8 | 5 | 7 | 2.8 | 25.11 | 28.8 | 5 | 6 | 6 | 26.0 | 29.8 | 6.6 | 5 | 4 | 26.50 | 0.7 | 7 | | | | | |
| 31 | 0 | 1 | 22.11 | 6 | 3 | 8 | 0.9 | 23.0 | 5 | 3 | 7 | 1.7 | 23.49 | 5 | 4 | 6 | 5 | 24.38 | 4 | 5.4 | 5 | 3 | 25.28 | 4 | 5 | 10.3 | 1 | 26.17 | 4 | 7.6 | | | | | |
| 32 | 5.8 | 29.8 | 21.38 | 2 | 2.2 | 7 | 6 | 22.27 | 1 | 2 | 6 | 4 | 23.16 | 1 | 3 | 5 | 2 | 24.5 | 1 | 3 | 9.4 | 0 | 24.54 | 1 | 4 | 2 | 3.8 | 25.44 | 0 | 5 | | | | | |
| 33 | 7 | 5 | 21.5 | 24.8 | 1 | 6 | 3 | 21.54 | 25.8 | 1 | 5 | 1 | 22.43 | 26.7 | 4.2 | 8.4 | 1.9 | 23.32 | 27.7 | 2 | 2 | 2.7 | 24.21 | 28.7 | 3 | 1 | 5 | 25.10 | 29.6 | 4 | | | | | |
| 34 | 6 | 2 | 20.32 | 4 | 0 | 5 | 0 | 21.20 | 4 | 0 | 7.4 | 0.8 | 22.9 | 3 | 1 | 2 | 6 | 22.57 | 3 | 1 | 1 | 4 | 23.46 | 3 | 6.2 | 0 | 2 | 24.35 | 2 | 3 | | | | | |
| 35 | 5 | 28.8 | 19.57 | 0 | 1.9 | 6.4 | 29.6 | 20.45 | 24.9 | 2.9 | 2 | 4 | 21.34 | 25.9 | 0 | 1 | 2 | 22.22 | 26.9 | 0 | 0 | 0 | 23.11 | 27.9 | 1 | 9.9 | 2.8 | 24.0 | 28.8 | 7.2 | | | | | |
| 36 | 5.4 | 5 | 19.22 | 23.5 | 7 | 3 | 3 | 20.10 | 5 | 8 | 1 | 1 | 20.58 | 5 | 3.9 | 0 | 0.9 | 21.47 | 5 | 4.9 | 8.9 | 1.7 | 22.35 | 4 | 0 | 7 | 5 | 23.24 | 4 | 1 | | | | | |
| 37 | 3 | 2 | 18.47 | 1 | 6 | 1 | 0 | 19.34 | 1 | 7 | 0 | 29.8 | 20.21 | 0 | 8 | 7.9 | 6 | 21.10 | 0 | 8 | 7 | 3 | 21.58 | 0 | 5.9 | 6 | 1 | 22.47 | 0 | 0 | | | | | |
| 38 | 1 | 27.8 | 18.10 | 22.6 | 5 | 0 | 28.6 | 18.57 | 23.6 | 6 | 6.9 | 4 | 19.45 | 24.6 | 6 | 7 | 2 | 20.32 | 25.6 | 7 | 6 | 0 | 21.20 | 26.6 | 8 | 5 | 1.8 | 22.9 | 27.6 | 6.9 | | | | | |
| 39 | 0 | 5 | 17.32 | 1 | 1.4 | 5.9 | 3 | 18.19 | 1 | 2.4 | 7 | 1 | 19.7 | 1 | 5 | 6 | 29.8 | 19.54 | 1 | 6 | 5 | 0.6 | 20.42 | 1 | 7 | 9.3 | 4 | 21.30 | 1 | 8 | | | | | |
| 40 | 4.9 | 2 | 16.54 | 21.6 | 2 | 7 | 27.9 | 17.41 | 22.6 | 3 | 6 | 28.7 | 18.28 | 23.6 | 3.4 | 5 | 5 | 19.15 | 24.6 | 5 | 8.3 | 3 | 20.2 | 25.6 | 6 | 2 | 0 | 20.50 | 26.6 | 7 | | | | | |
| 41 | 8 | 26.9 | 16.15 | 1 | 1 | 6 | 5 | 17.1 | 1 | 2 | 5 | 3 | 17.48 | 1 | 3 | 7.3 | 1 | 18.34 | 1 | 4.4 | 2 | 29.9 | 19.22 | 0 | 5 | 0 | 0.6 | 20.9 | 0 | 6 | | | | | |
| 42 | 6 | 5 | 15.34 | 20.6 | 0.9 | 5 | 2 | 16.21 | 21.5 | 0 | 6.3 | 27.9 | 17.7 | 22.5 | 1 | 2 | 28.7 | 17.53 | 23.6 | 3 | 0 | 5 | 18.40 | 24.5 | 5.3 | 8.9 | 2 | 19.27 | 25.5 | 4 | | | | | |
| 43 | 5 | 1 | 14.53 | 0 | 8 | 5.3 | 26.8 | 15.39 | 0 | 1.9 | 2 | 5 | 16.25 | 21.9 | 0 | 0 | 3 | 17.11 | 0 | 2 | 7.9 | 1 | 17.57 | 0 | 2 | 7 | 29.8 | 18.43 | 0 | 6.3 | | | | | |
| 44 | 4.3 | 25.7 | 14.10 | 19.4 | 6 | 2 | 4 | 14.56 | 20.4 | 7 | 0 | 1 | 15.41 | 3 | 2.9 | 6.9 | 27.9 | 16.27 | 22.4 | 1 | 7 | 28.7 | 17.13 | 23.4 | 1 | 6 | 4 | 17.59 | 24.4 | 2 | | | | | |
| 45 | 2 | 3 | 13.27 | 18.8 | 5 | 0 | 0 | 14.12 | 19.8 | 6 | 5.9 | 26.7 | 14.57 | 20.7 | 8 | 7 | 5 | 15.42 | 21.8 | 3.9 | 5 | 2 | 16.28 | 22.8 | 0 | 4 | 0 | 17.14 | 23.8 | 1 | | | | | |
| 46 | 0 | 24.9 | 12.42 | 1 | 0.3 | 4.9 | 25.5 | 13.27 | 1 | 5 | 7 | 3 | 14.12 | 1 | 6 | 5 | 0 | 14.56 | 2 | 7 | 4 | 27.8 | 15.41 | 1 | 4.8 | 8.2 | 28.5 | 16.27 | 1 | 0 | | | | | |
| 47 | 3.9 | 5 | 11.56 | 17.5 | 1 | 8 | 1 | 12.40 | 18.4 | 3 | 6 | 25.9 | 13.25 | 19.4 | 4 | 4 | 26.6 | 14.9 | 20.5 | 5 | 3 | 4 | 14.53 | 21.4 | 7 | 1 | 1 | 15.38 | 22.5 | 5.8 | | | | | |
| 48 | 8 | 1 | 11.9 | 16.8 | 0 | 7 | 24.7 | 11.52 | 17.7 | 1 | 5 | 5 | 12.37 | 18.7 | 2 | 2 | 2 | 13.20 | 19.8 | 3 | 1 | 0 | 14.4 | 20.7 | 5 | 0 | 27.7 | 14.48 | 21.8 | 6 | | | | | |
| 49 | 6 | 23.6 | 10.20 | 0 | 29.8 | 5 | 3 | 11.3 | 0 | 0.9 | 3 | 0 | 11.47 | 0 | 1 | 1 | 25.8 | 12.30 | 1 | 2 | 6.9 | 26.5 | 13.13 | 0 | 4 | 7.8 | 2 | 13.57 | 0 | 5 | | | | | |
| 50 | 4 | 1 | 9.29 | 15.3 | 6 | 3 | 23.8 | 10.12 | 16.3 | 7 | 1 | 24.5 | 10.55 | 17.3 | 1.9 | 5.9 | 3 | 11.38 | 18.3 | 0 | 7 | 0 | 12.21 | 19.3 | 2 | 6 | 26.7 | 13.4 | 20.3 | 4 | | | | | |
| 51 | 2 | 22.6 | 8.38 | 14.5 | 3 | 1 | 3 | 9.20 | 15.5 | 5 | 4.9 | 0 | 10.2 | 16.5 | 6 | 7 | 24.8 | 10.44 | 17.5 | 2.8 | 5 | 25.5 | 11.27 | 18.5 | 0 | 4 | 2 | 12.9 | 19.5 | 2 | | | | | |
| 52 | 0 | 1 | 7.44 | 13.6 | 1 | 3.9 | 22.8 | 8.26 | 14.6 | 2 | 7 | 23.5 | 9.7 | 15.6 | 4 | 6 | 3 | 9.49 | 16.6 | 6 | 3 | 0 | 10.31 | 17.6 | 3.7 | 2 | 25.7 | 11.13 | 18.6 | 4.9 | | | | | |
| 53 | 2.9 | 21.6 | 6.49 | 12.7 | 28.8 | 7 | 3 | 7.30 | 13.6 | 0 | 5 | 0 | 8.10 | 14.6 | 2 | 4 | 23.8 | 8.52 | 15.6 | 3 | 2 | 24.5 | 9.33 | 16.6 | 5 | 0 | 2 | 10.14 | 17.6 | 7 | | | | | |
| 54 | 7 | 1 | 5.52 | 11.7 | 6 | 5 | 21.8 | 6.32 | 12.6 | 29.8 | 3 | 22.5 | 7.12 | 13.6 | 0.9 | 2 | 2 | 7.53 | 14.5 | 1 | 0 | 23.9 | 8.33 | 15.5 | 3 | 6.8 | 24.6 | 9.14 | 16.5 | 5 | | | | | |
| 55 | 5 | 20.5 | 4.53 | 10.6 | 3 | 3 | 2 | 5.32 | 11.5 | 5 | 1 | 21.9 | 6.12 | 12.5 | 7 | 0 | 22.6 | 6.51 | 13.4 | 1.9 | 5.8 | 3 | 7.31 | 14.4 | 1 | 6 | 0 | 8.11 | 15.4 | 3 | | | | | |
| 56 | 3 | 19.9 | 3.52 | 9.4 | 0 | 1 | 20.6 | 4.31 | 10.3 | 3 | 3.8 | 3 | 5.10 | 11.3 | 5 | 4.7 | 0 | 5.48 | 12.2 | 7 | 5 | 22.7 | 6.27 | 13.2 | 2.9 | 3 | 23.4 | 7.6 | 14.1 | 0 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 12 47 50 } $\simeq 13^\circ$ ARC 191° 57'.5 | | | | | | H. M. S. 12 51 32 } $\simeq 14^\circ$ 192° 53'.0 | | | | | | H. M. S. 12 55 14 } $\simeq 15^\circ$ 193° 48'.6 | | | | | | H. M. S. 12 58 57 } $\simeq 16^\circ$ 194° 44'.3 | | | | | | H. M. S. 13 2 40 } $\simeq 17^\circ$ 195° 40'.0 | | | | | | H. M. S. 13 6 23 } $\simeq 18^\circ$ 196° 35'.9 | | | | | |
|--|------|------|-------|------|-----|--|------|-------|------|------|------|--|-------|------|------|------|------|--|------|------|------|------|-------|---|------|------|------|-------|------|---|------|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 |
| Lat. | m | f | ° | ' | ° | m | f | ° | ' | ° | m | f | ° | ' | ° | m | f | ° | ' | ° | m | f | ° | ' | ° | m | f | ° | ' | ° | m | f | ° | ' | ° |
| 22 | 12.3 | 7.6 | 0 143 | 4.2 | 9.3 | 13.1 | 8.4 | 0 234 | 5.2 | 10.3 | 14.0 | 9.3 | 0 326 | 6.1 | 11.4 | 14.9 | 10.1 | 0 418 | 7.1 | 12.4 | 15.8 | 11.0 | 0 510 | 8.1 | 13.5 | 16.7 | 11.8 | 0 61 | 9.1 | 14.6 | | | | | |
| 23 | 1 | 3 | 1 14 | 3.9 | 2 | 0 | 2 | 2 5 | 4.9 | 3 | 13.9 | 0 | 2 57 | 5.9 | 3 | 8 | 9.8 | 3 49 | 6.8 | 4 | 7 | 10.7 | 4 41 | 7.8 | 4 | 6 | 5 | 5 33 | 8.8 | 5 | | | | | |
| 24 | 0 | 0 | 0 45 | 6 | 2 | 12.9 | 7.9 | 1 36 | 6 | 2 | 8 | 8.7 | 2 28 | 6 | 3 | 7 | 6 | 3 19 | 6 | 3 | 6 | 4 | 4 11 | 5 | 4 | 5 | 2 | 5 3 | 6 | 5 | | | | | |
| 25 | 11.9 | 6.8 | 0 16 | 3 | 1 | 8 | 6 | 1 7 | 3 | 1 | 7 | 4 | 1 58 | 3 | 2 | 6 | 3 | 2 50 | 3 | 3 | 5 | 1 | 3 41 | 2 | 3 | 4 | 10.9 | 4 33 | 3 | 4 | | | | | |
| 26 | 8 | 5 | 29 46 | 0 | 0 | 7 | 3 | 0 36 | 0 | 1 | 6 | 1 | 1 28 | 0 | 11.1 | 5 | 0 | 2 19 | 0 | 2 | 15.4 | 9.8 | 3 11 | 6.9 | 3 | 16.3 | 6 | 4 | 3 | 0 | 14.4 | | | | |
| 27 | 7 | 2 | 29 15 | 2.7 | 0 | 6 | 0 | 0 6 | 3.7 | 0 | 5 | 7.8 | 0 57 | 4.7 | 1 | 14.4 | 8.7 | 1 49 | 5.7 | 12.2 | 2 | 5 | 2 40 | 6 | 13.2 | 1 | 3 | 3 32 | 7.7 | 3 | | | | | |
| 28 | 6 | 5.9 | 28 44 | 4 | 8.9 | 5 | 6.7 | 29 35 | 3 | 9.9 | 13.4 | 5 | 0 26 | 3 | 0 | 2 | 3 | 1 17 | 3 | 1 | 1 | 2 | 2 9 | 3 | 2 | 0 | 0 | 3 0 | 4 | 3 | | | | | |
| 29 | 5 | 6 | 28 12 | 0 | 8 | 12.4 | 4 | 29 3 | 0 | 9 | 2 | 2 | 29 54 | 0 | 10.9 | 1 | 0 | 0 45 | 0 | 0 | 0 | 8.8 | 1 37 | 0 | 1 | 15.9 | 9.7 | 2 28 | 1 | 2 | | | | | |
| 30 | 11.4 | 2 | 27 40 | 1.7 | 7 | 2 | 1 | 28 31 | 2.7 | 8 | 1 | 6.9 | 29 22 | 3.7 | 9 | 0 | 7.7 | 0 13 | 4.7 | 0 | 14.9 | 5 | 1 | 4 | 5.7 | 0 | 8 | 3 | 1 55 | 6.7 | 14.1 | | | | |
| 31 | 2 | 4.9 | 27 8 | 4 | 6 | 1 | 5.7 | 27 58 | 4 | 7 | 0 | 6 | 28 49 | 4 | 8 | 13.9 | 4 | 29 40 | 4 | 11.9 | 7 | 2 | 0 31 | 4 | 0 | 6 | 0 | 1 22 | 4 | 1 | | | | | |
| 32 | 1 | 6 | 26 34 | 0 | 8.6 | 0 | 4 | 27 24 | 0 | 6 | 12.9 | 2 | 28 15 | 0 | 7 | 7 | 1 | 29 6 | 0 | 8 | 6 | 7.9 | 29 57 | 0 | 12.9 | 5 | 8.7 | 0 48 | 1 | 0 | | | | | |
| 33 | 0 | 3 | 26 0 | 0.6 | 5 | 11.9 | 1 | 26 50 | 1.6 | 9.6 | 7 | 5.9 | 27 40 | 2.6 | 7 | 6 | 6.7 | 28 31 | 3.7 | 7 | 5 | 5 | 29 22 | 4.7 | 8 | 15.4 | 3 | 0 13 | 5.7 | 13.9 | | | | | |
| 34 | 10.9 | 0 | 25 25 | 2 | 4 | 7 | 4.8 | 26 15 | 2 | 5 | 6 | 6 | 27 5 | 2 | 10.6 | 5 | 4 | 27 55 | 3 | 7 | 14.4 | 2 | 28 46 | 3 | 8 | 2 | 0 | 29 37 | 3 | 9 | | | | | |
| 35 | 7 | 3.6 | 24 49 | 29.8 | 3 | 6 | 4 | 25 39 | 0.8 | 4 | 5 | 2 | 26 28 | 1.8 | 5 | 13.3 | 0 | 27 19 | 2.9 | 11.6 | 2 | 6.8 | 28 9 | 3.9 | 7 | 1 | 7.6 | 29 0 | 4.9 | 8 | | | | | |
| 36 | 6 | 3 | 24 13 | 4 | 8.2 | 5 | 1 | 25 2 | 4 | 3 | 12.3 | 4.9 | 25 51 | 4 | 4 | 2 | 5.7 | 26 41 | 5 | 5 | 1 | 5 | 27 32 | 5 | 12.6 | 14.9 | 3 | 28 22 | 5 | 7 | | | | | |
| 37 | 5 | 2.9 | 23 35 | 0 | 1 | 11.3 | 3.7 | 24 24 | 0 | 9.2 | 2 | 5 | 25 14 | 0 | 3 | 1 | 3 | 26 3 | 0 | 4 | 13.9 | 1 | 26 54 | 1 | 5 | 8 | 6.9 | 27 44 | 1 | 7 | | | | | |
| 38 | 10.3 | 6 | 22 57 | 28.6 | 1 | 2 | 4 | 23 46 | 29.5 | 1 | 1 | 2 | 24 35 | 0.5 | 10.3 | 12.9 | 0 | 25 24 | 1.6 | 3 | 8 | 5.7 | 26 15 | 2.6 | 5 | 6 | 5 | 27 4 | 3.7 | 13.6 | | | | | |
| 39 | 2 | 2 | 22 18 | 1 | 0 | 0 | 0 | 23 6 | 1 | 0 | 11.9 | 3.8 | 23 55 | 1 | 2 | 8 | 4.6 | 24 44 | 1 | 11.2 | 6 | 4 | 25 34 | 2 | 4 | 5 | 2 | 26 24 | 2 | 6 | | | | | |
| 40 | 0 | 1.8 | 21 38 | 27.6 | 7.9 | 10.9 | 2.6 | 22 26 | 28.6 | 0 | 7 | 4 | 23 15 | 29.6 | 1 | 6 | 2 | 24 4 | 0.6 | 2 | 5 | 0 | 24 53 | 1.7 | 12.3 | 14.3 | 5.8 | 25 42 | 2.7 | 5 | | | | | |
| 41 | 9.9 | 4 | 20 57 | 0 | 8 | 7 | 2 | 21 44 | 0 | 8.9 | 6 | 0 | 22 33 | 1 | 0 | 4 | 3.8 | 23 22 | 1 | 1 | 13.3 | 4.6 | 24 11 | 1 | 2 | 2 | 4 | 25 0 | 2 | 4 | | | | | |
| 42 | 7 | 0 | 20 14 | 26.5 | 7 | 6 | 1.8 | 21 2 | 27.5 | 8 | 4 | 2.6 | 21 50 | 28.5 | 9.9 | 3 | 4 | 22 38 | 29.6 | 0 | 1 | 2 | 23 27 | 0.6 | 1 | 0 | 4.9 | 24 16 | 1.7 | 13.3 | | | | | |
| 43 | 6 | 0.6 | 19 31 | 0 | 5 | 4 | 4 | 20 18 | 0 | 7 | 3 | 2 | 21 6 | 0 | 8 | 1 | 0 | 21 54 | 0 | 10.9 | 0 | 3.7 | 22 42 | 0 | 0 | 13.8 | 5 | 23 31 | 1 | 2 | | | | | |
| 44 | 4 | 2 | 18 46 | 25.4 | 7.4 | 10.3 | 0 | 19 33 | 26.4 | 5 | 1 | 1.7 | 20 20 | 27.4 | 7 | 11.9 | 2.5 | 21 8 | 28.4 | 8 | 12.8 | 3 | 21 55 | 29.4 | 11.9 | 6 | 1 | 22 44 | 0.5 | 1 | | | | | |
| 45 | 2 | 29.7 | 18 0 | 24.8 | 3 | 1 | 0.5 | 18 46 | 25.8 | 8.4 | 10.9 | 3 | 19 33 | 26.8 | 6 | 8 | 1 | 20 20 | 27.8 | 7 | 6 | 2.8 | 21 7 | 28.8 | 8 | 4 | 3.6 | 21 56 | 29.9 | 0 | | | | | |
| 46 | 0 | 3 | 17 13 | 1 | 1 | 0 | 1 | 17 58 | 2 | 3 | 7 | 0.9 | 18 44 | 2 | 9.4 | 7 | 1.6 | 19 31 | 2 | 6 | 4 | 4 | 20 18 | 2 | 7 | 3 | 2 | 21 6 | 3 | 12.9 | | | | | |
| 47 | 8.9 | 28.8 | 16 24 | 23.4 | 0 | 9.8 | 29.6 | 17 9 | 24.5 | 1 | 6 | 5 | 17 55 | 25.6 | 3 | 5 | 2 | 18 41 | 26.6 | 10.5 | 3 | 1.9 | 19 27 | 27.6 | 6 | 1 | 2 | 20 14 | 28.7 | 8 | | | | | |
| 48 | 8 | 4 | 15 34 | 22.8 | 6.9 | 6 | 2 | 16 18 | 23.8 | 0 | 4 | 0 | 17 3 | 24.9 | 2 | 3 | 0.7 | 17 49 | 25.9 | 3 | 1 | 4 | 18 35 | 26.9 | 5 | 12.9 | 2 | 19 21 | 1 | 7 | | | | | |
| 49 | 6 | 0 | 14 42 | 1 | 7 | 4 | 28.7 | 15 25 | 1 | 7.9 | 2 | 29.5 | 16 11 | 2 | 0 | 1 | 2 | 16 55 | 1 | 2 | 11.9 | 0.9 | 17 41 | 2 | 11.4 | 7 | 1.7 | 18 27 | 27.4 | 6 | | | | | |
| 50 | 4 | 27.5 | 13 48 | 21.3 | 5 | 2 | 2 | 14 31 | 22.3 | 7 | 1 | 0 | 15 16 | 23.4 | 8.9 | 10.9 | 29.7 | 16 0 | 24.4 | 1 | 7 | 4 | 16 45 | 25.5 | 3 | 5 | 2 | 17 31 | 26.6 | 12.5 | | | | | |
| 51 | 2 | 0 | 12 52 | 20.5 | 3 | 0 | 27.7 | 13 36 | 21.5 | 5 | 9.9 | 28.5 | 14 19 | 22.6 | 7 | 7 | 2 | 15 3 | 23.6 | 9.9 | 5 | 29.9 | 15 48 | 24.7 | 1 | 3 | 0.6 | 16 32 | 25.8 | 4 | | | | | |
| 52 | 0 | 26.5 | 11 55 | 19.6 | 1 | 8.8 | 2 | 12 38 | 20.6 | 3 | 7 | 27.9 | 13 20 | 21.7 | 6 | 5 | 28.6 | 14 4 | 22.7 | 8 | 3 | 3 | 14 48 | 23.8 | 0 | 0 | 0 | 15 32 | 24.9 | 2 | | | | | |
| 53 | 7.8 | 25.9 | 10 55 | 18.6 | 5.9 | 6 | 26.6 | 11 38 | 19.6 | 1 | 4 | 3 | 12 20 | 20.7 | 4 | 2 | 0 | 13 3 | 21.7 | 6 | 1 | 28.7 | 13 46 | 22.7 | 10.8 | 11.8 | 29.4 | 14 29 | 23.9 | 0 | | | | | |
| 54 | 6 | 3 | 9 54 | 17.5 | 8 | 4 | 0 | 10 36 | 18.6 | 0 | 2 | 26.7 | 11 17 | 19.6 | 2 | 0 | 27.4 | 11 59 | 20.7 | 4 | 10.9 | 1 | 12 42 | 21.7 | 7 | 6 | 28.8 | 13 24 | 22.8 | 11.9 | | | | | |
| 55 | 4 | 24.7 | 8 51 | 16.4 | 6 | 2 | 25.4 | 9 32 | 17.5 | 6.8 | 0 | 1 | 10 13 | 18.5 | 0 | 9.8 | 26.8 | 10 54 | 19.6 | 2 | 6 | 27.5 | 11 35 | 20.6 | 5 | 4 | 2 | 12 16 | 21.7 | 7 | | | | | |
| 56 | 1 | 1 | 7 46 | 15.1 | 4 | 7.9 | 24.8 | 8 25 | 16.3 | 5 | 8.7 | 25.5 | 9 5 | 17.2 | 7.8 | 5 | 2 | 9 45 | 18.3 | 0 | 3 | 26.9 | 10 26 | 19.3 | 3 | 1 | 27 5 | 11 6 | 20.4 | 6 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 13 6 23 } $\simeq 18^\circ$ ARC 196° 35'.9 | | | | | | H. M. S. 13 10 7 } $\simeq 19^\circ$ 197° 31'.8 | | | | | | H. M. S. 13 13 51 } $\simeq 20^\circ$ 198° 27'.8 | | | | | | H. M. S. 13 17 36 } $\simeq 21^\circ$ 199° 24'.0 | | | | | | H. M. S. 13 21 21 } $\simeq 22^\circ$ 200° 20'.2 | | | | | | H. M. S. 13 25 6 } $\simeq 23^\circ$ 201° 16'.6 | | | | | | |
|---|------|------|----|----|------|---|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|---|------|------|----|----|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | m | f | l | l | l | m | f | l | l | l | m | f | l | l | l | m | f | l | l | l | m | f | l | l | l | m | f | l | l | l | m | f | l | l | l | |
| 22 | 16.7 | 11.8 | 6 | 1 | 9.1 | 14.6 | 17.6 | 12.6 | 6 | 54 | 10.1 | 15.6 | 18.5 | 13.5 | 7 | 47 | 11.1 | 16.7 | 19.4 | 14.3 | 8 | 41 | 12.1 | 17.8 | 20.3 | 15.1 | 9 | 34 | 13.2 | 18.8 | 21.2 | 16.0 | 10 | 28 | 14.2 | 19.9 |
| 23 | 6 | 5 | 5 | 33 | 8.8 | 5 | 5 | 3 | 6 | 26 | 9.8 | 6 | 4 | 2 | 7 | 18 | 10.8 | 6 | 3 | 0 | 8 | 12 | 11.9 | 7 | 2 | 14.8 | 9 | 5 | 12.9 | 8 | 1 | 15.7 | 9 | 59 | 13.9 | 9 |
| 24 | 5 | 2 | 5 | 3 | 6 | 5 | 4 | 0 | 5 | 56 | 6 | 5 | 3 | 12.9 | 6 | 49 | 6 | 6 | 1 | 13.7 | 7 | 42 | 6 | 7 | 0 | 5 | 8 | 35 | 6 | 8 | 20.9 | 4 | 9 | 29 | 7 | 9 |
| 25 | 4 | 10.9 | 4 | 33 | 3 | 4 | 3 | 11.7 | 5 | 26 | 3 | 5 | 1 | 6 | 6 | 19 | 3 | 6 | 0 | 4 | 7 | 12 | 3 | 7 | 19.9 | 2 | 8 | 5 | 3 | 7 | 8 | 1 | 8 | 59 | 4 | 8 |
| 26 | 16.3 | 6 | 4 | 3 | 0 | 14.4 | 1 | 4 | 4 | 56 | 0 | 4 | 0 | 3 | 5 | 48 | 0 | 5 | 18.9 | 1 | 6 | 41 | 0 | 6 | 8 | 13.9 | 7 | 35 | 1 | 7 | 7 | 14.8 | 8 | 28 | 1 | 8 |
| 27 | 1 | 3 | 3 | 32 | 7.7 | 3 | 0 | 1 | 4 | 25 | 8.7 | 15.4 | 17.9 | 0 | 5 | 17 | 9.7 | 16.5 | 8 | 12.8 | 6 | 10 | 10.7 | 17.6 | 7 | 6 | 7 | 3 | 11.8 | 18.7 | 5 | 5 | 7 | 57 | 12.8 | 19.8 |
| 28 | 0 | 0 | 3 | 0 | 4 | 3 | 16.9 | 10.8 | 3 | 53 | 4 | 3 | 8 | 11.6 | 4 | 45 | 4 | 4 | 6 | 5 | 5 | 38 | 4 | 5 | 5 | 3 | 6 | 31 | 5 | 6 | 20.4 | 1 | 7 | 25 | 5 | 7 |
| 29 | 15.9 | 9.7 | 2 | 28 | 1 | 2 | 8 | 5 | 3 | 21 | 1 | 3 | 6 | 3 | 4 | 13 | 1 | 4 | 5 | 2 | 5 | 6 | 1 | 5 | 19.4 | 0 | 5 | 59 | 2 | 6 | 3 | 13.8 | 6 | 52 | 2 | 7 |
| 30 | 8 | 3 | 1 | 55 | 6.7 | 14.1 | 6 | 2 | 2 | 48 | 7.8 | 2 | 5 | 0 | 3 | 40 | 8.8 | 3 | 18.4 | 11.8 | 4 | 33 | 9.8 | 4 | 3 | 12.7 | 5 | 25 | 10.9 | 5 | 1 | 5 | 6 | 19 | 11.9 | 6 |
| 31 | 6 | 0 | 1 | 22 | 4 | 1 | 5 | 9.8 | 2 | 14 | 4 | 15.2 | 17.4 | 10.7 | 3 | 6 | 5 | 3 | 3 | 5 | 3 | 59 | 5 | 4 | 1 | 3 | 4 | 51 | 6 | 5 | 0 | 1 | 5 | 44 | 6 | 6 |
| 32 | 5 | 8.7 | 0 | 48 | 1 | 0 | 16.4 | 5 | 1 | 40 | 1 | 1 | 3 | 3 | 2 | 31 | 1 | 16.2 | 1 | 2 | 3 | 24 | 2 | 17.3 | 0 | 0 | 4 | 16 | 2 | 18.4 | 19.9 | 12.8 | 5 | 10 | 3 | 19.6 |
| 33 | 15.4 | 3 | 0 | 13 | 5.7 | 13.9 | 2 | 2 | 1 | 4 | 6.7 | 0 | 1 | 0 | 1 | 56 | 7.8 | 2 | 0 | 10.8 | 2 | 48 | 8.8 | 3 | 18.9 | 11.6 | 3 | 41 | 9.9 | 4 | 7 | 4 | 4 | 34 | 10.9 | 5 |
| 34 | 2 | 0 | 29 | 37 | 3 | 9 | 1 | 8.8 | 0 | 28 | 4 | 0 | 0 | 9.6 | 1 | 20 | 4 | 1 | 17.8 | 5 | 2 | 12 | 5 | 2 | 7 | 3 | 3 | 4 | 5 | 3 | 6 | 1 | 3 | 57 | 6 | 5 |
| 35 | 1 | 7.6 | 29 | 0 | 4.9 | 8 | 0 | 5 | 29 | 51 | 0 | 14.9 | 16.8 | 3 | 0 | 43 | 0 | 0 | 7 | 1 | 1 | 35 | 1 | 2 | 6 | 10.9 | 2 | 27 | 1 | 3 | 4 | 11.7 | 3 | 20 | 2 | 4 |
| 36 | 14.9 | 3 | 28 | 22 | 5 | 7 | 15.8 | 1 | 29 | 13 | 5.6 | 9 | 7 | 8.9 | 0 | 5 | 6.6 | 0 | 5 | 9.7 | 0 | 56 | 7.7 | 17.1 | 4 | 5 | 1 | 48 | 8.7 | 2 | 19.3 | 3 | 2 | 41 | 9.8 | 19.4 |
| 37 | 8 | 6.9 | 27 | 44 | 1 | 7 | 7 | 7.7 | 28 | 35 | 2 | 8 | 5 | 5 | 29 | 26 | 2 | 15.9 | 4 | 3 | 0 | 17 | 3 | 1 | 3 | 1 | 1 | 9 | 3 | 18.2 | 1 | 0 | 2 | 1 | 4 | 3 |
| 38 | 6 | 5 | 27 | 4 | 3.7 | 13.6 | 5 | 3 | 27 | 55 | 4.7 | 7 | 4 | 2 | 28 | 46 | 5.8 | 8 | 2 | 8.9 | 29 | 37 | 6.8 | 0 | 1 | 9.7 | 0 | 29 | 7.9 | 1 | 0 | 10.6 | 1 | 21 | 0 | 3 |
| 39 | 5 | 2 | 26 | 24 | 2 | 6 | 3 | 0 | 27 | 14 | 3 | 6 | 2 | 7.8 | 28 | 5 | 3 | 8 | 1 | 5 | 28 | 56 | 4 | 0 | 17.9 | 3 | 29 | 47 | 5 | 1 | 18.8 | 2 | 0 | 39 | 8.5 | 2 |
| 40 | 14.3 | 5.8 | 25 | 42 | 2.7 | 5 | 2 | 6.6 | 26 | 33 | 3.8 | 14.6 | 0 | 4 | 27 | 23 | 4.9 | 7 | 16.9 | 1 | 28 | 13 | 5.9 | 16.9 | 8 | 8.9 | 29 | 4 | 0 | 0 | 6 | 9.7 | 29 | 56 | 1 | 19.2 |
| 41 | 2 | 4 | 25 | 0 | 2 | 4 | 0 | 2 | 25 | 50 | 3 | 5 | 15.9 | 6.9 | 26 | 39 | 4 | 6 | 7 | 7.7 | 27 | 30 | 4 | 9 | 6 | 5 | 28 | 20 | 6.5 | 17.9 | 4 | 3 | 29 | 12 | 7.6 | 1 |
| 42 | 0 | 4.9 | 24 | 16 | 1.7 | 13.3 | 14.8 | 5.7 | 25 | 5 | 2.7 | 4 | 7 | 5 | 25 | 55 | 3.9 | 15.5 | 5 | 3 | 26 | 45 | 4.9 | 8 | 4 | 1 | 27 | 35 | 0 | 9 | 3 | 8.9 | 28 | 26 | 1 | 0 |
| 43 | 13.8 | 5 | 23 | 31 | 1 | 2 | 7 | 3 | 24 | 20 | 2 | 4 | 5 | 1 | 25 | 9 | 4 | 5 | 4 | 6.9 | 25 | 58 | 4 | 7 | 2 | 7.6 | 26 | 48 | 5.5 | 8 | 1 | 4 | 27 | 39 | 6.6 | 0 |
| 44 | 6 | 1 | 22 | 44 | 0.5 | 1 | 5 | 4.8 | 23 | 32 | 1.6 | 14.3 | 3 | 5.6 | 24 | 21 | 2.8 | 4 | 2 | 4 | 25 | 10 | 3.9 | 16.6 | 0 | 2 | 26 | 0 | 0 | 8 | 17.9 | 7.9 | 26 | 50 | 0 | 18.9 |
| 45 | 4 | 3.6 | 21 | 56 | 29.9 | 0 | 3 | 4 | 22 | 44 | 0 | 2 | 2 | 2 | 23 | 32 | 2 | 4 | 0 | 5.9 | 24 | 21 | 3 | 6 | 16.8 | 6.7 | 25 | 10 | 4.4 | 7 | 7 | 5 | 26 | 0 | 5.5 | 8 |
| 46 | 3 | 2 | 21 | 6 | 3 | 12.9 | 2 | 3.9 | 21 | 54 | 0.4 | 1 | 0 | 4.7 | 22 | 42 | 1.6 | 15.3 | 15.8 | 4 | 23 | 30 | 2.7 | 5 | 7 | 2 | 24 | 19 | 3.8 | 17.7 | 5 | 0 | 25 | 8 | 4.9 | 8 |
| 47 | 1 | 2.7 | 20 | 14 | 28.7 | 8 | 0 | 4 | 21 | 2 | 29.7 | 0 | 14.8 | 2 | 21 | 49 | 0 | 2 | 6 | 4.9 | 22 | 37 | 1 | 4 | 5 | 5.8 | 23 | 26 | 2 | 6 | 3 | 6.5 | 24 | 15 | 3 | 7 |
| 48 | 12.9 | 2 | 19 | 21 | 1 | 7 | 13.8 | 2.9 | 20 | 8 | 1 | 13.9 | 6 | 3.7 | 20 | 55 | 0.3 | 1 | 4 | 4 | 21 | 43 | 1.4 | 16.3 | 3 | 3 | 22 | 31 | 2.5 | 5 | 1 | 0 | 23 | 19 | 3.6 | 18.7 |
| 49 | 7 | 1.7 | 18 | 27 | 27.4 | 6 | 6 | 4 | 19 | 13 | 28.4 | 8 | 4 | 2 | 20 | 0 | 29.6 | 0 | 2 | 3.9 | 20 | 47 | 0.7 | 2 | 1 | 4.7 | 21 | 34 | 1.8 | 4 | 16.9 | 5.5 | 22 | 22 | 2.9 | 6 |
| 50 | 5 | 2 | 17 | 31 | 26.6 | 12.5 | 4 | 1.9 | 18 | 16 | 27.7 | 7 | 2 | 2.7 | 19 | 2 | 28.8 | 14.9 | 0 | 4 | 19 | 48 | 29.9 | 1 | 15.9 | 2 | 20 | 35 | 0 | 17.3 | 7 | 4.9 | 21 | 22 | 2 | 5 |
| 51 | 3 | 0.6 | 16 | 32 | 25.8 | 4 | 2 | 3 | 17 | 17 | 26.9 | 6 | 13.9 | 1 | 18 | 2 | 0 | 8 | 14.8 | 2.8 | 18 | 48 | 1 | 0 | 7 | 3.6 | 19 | 34 | 0.2 | 2 | 4 | 3 | 20 | 20 | 1.4 | 4 |
| 52 | 0 | 0 | 15 | 32 | 24.9 | 2 | 12.9 | 0.7 | 16 | 16 | 0 | 13.4 | 7 | 1.5 | 17 | 0 | 27.1 | 7 | 5 | 2 | 17 | 45 | 28.2 | 15.8 | 4 | 0 | 18 | 30 | 29.3 | 1 | 1 | 3.7 | 19 | 16 | 0.5 | 18.3 |
| 53 | 11.8 | 29.4 | 14 | 29 | 23.9 | 0 | 7 | 1 | 15 | 12 | 25.0 | 3 | 5 | 0.9 | 15 | 56 | 26.1 | 5 | 3 | 1.6 | 16 | 40 | 27.2 | 7 | 2 | 2.4 | 17 | 25 | 28.3 | 0 | 15.9 | 1 | 18 | 10 | 29.5 | 2 |
| 54 | 6 | 28.8 | 13 | 24 | 22.8 | 11.9 | 5 | 29.5 | 14 | 6 | 23.9 | 1 | 3 | 3 | 14 | 49 | 25.1 | 14.4 | 0 | 0 | 15 | 33 | 26.2 | 6 | 14.9 | 1.8 | 16 | 16 | 27.3 | 16.9 | 7 | 2.5 | 17 | 1 | 28.5 | 2 |
| 55 | 4 | 2 | 12 | 16 | 21.7 | 7 | 2 | 28.9 | 12 | 58 | 22.8 | 0 | 0 | 29.7 | 13 | 40 | 24.0 | 2 | 13.8 | 0.4 | 14 | 23 | 25.1 | 5 | 6 | 1 | 15 | 6 | 26.2 | 8 | 4 | 1.8 | 15 | 49 | 27.4 | 1 |
| 56 | 1 | 27.5 | 11 | 6 | 20.4 | 6 | 11.9 | 2 | 11 | 47 | 21.5 | 12.9 | 12.7 | 0 | 12 | 28 | 22.7 | 1 | 5 | 29.7 | 13 | 10 | 23.8 | 3 | 3 | 0.4 | 13 | 52 | 25.0 | 7 | 1 | 1 | 14 | 34 | 26.2 | 0 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 13 28 52 } \simeq 24° ARC 202° 13'.0 | | | | | | H. M. S. 13 32 38 } \simeq 25° 203° 9'.6 | | | | | | H. M. S. 13 36 25 } \simeq 26° 204° 6'.3 | | | | | | H. M. S. 13 40 13 } \simeq 27° 205° 3'.2 | | | | | | H. M. S. 13 44 0 } \simeq 28° 206° 0'.1 | | | | | | H. M. S. 13 47 49 } \simeq 29° 206° 57'.2 | | | | | | | |
|---|-------|---------|-------|----------|--------|--|---------|-------|----------|--------|-------|--|-------|----------|--------|-------|---------|--|----------|--------|-------|---------|-------|---|--------|-------|---------|-------|----------|---|-------|---------|-------|----------|--------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | μ | ι | ν | ω | χ | μ | ι | ν | ω | χ | μ | ι | ν | ω | χ | μ | ι | ν | ω | χ | μ | ι | ν | ω | χ | μ | ι | ν | ω | χ | μ | ι | ν | ω | χ | | |
| 22 | 22.1 | 16.8 | 11 | 22 | 15.2 | 21.0 | 23.0 | 17.7 | 12 | 16 | 16.3 | 22.1 | 23.9 | 18.5 | 13 | 11 | 17.3 | 23.2 | 24.7 | 19.4 | 14 | 6 | 18.4 | 24.3 | 25.6 | 20.3 | 15 | 2 | 19.4 | 25.4 | 26.5 | 21.1 | 15 | 55 | 20.5 | 26.5 | |
| 23 | 21.9 | 5 | 10 | 53 | 0 | 0 | 22.8 | 4 | 11 | 47 | 0 | 1 | 7 | 2 | 12 | 42 | 1 | 2 | 6 | 1 | 13 | 37 | 1 | 3 | 5 | 0 | 14 | 33 | 2 | 4 | 4 | 20.8 | 15 | 29 | 3 | 5 | |
| 24 | 8 | 2 | 10 | 23 | 14.7 | 20.9 | 7 | 1 | 11 | 18 | 15.8 | 1 | 6 | 17.9 | 12 | 12 | 16.8 | 1 | 5 | 18.8 | 13 | 7 | 17.9 | 2 | 4 | 19.6 | 14 | 3 | 18.9 | 4 | 3 | 5 | 14 | 59 | 0 | 5 | |
| 25 | 7 | 15.9 | 9 | 53 | 4 | 9 | 6 | 16.8 | 10 | 47 | 5 | 0 | 5 | 6 | 11 | 42 | 6 | 1 | 4 | 5 | 12 | 37 | 6 | 2 | 2 | 3 | 13 | 33 | 7 | 4 | 1 | 2 | 14 | 29 | 19.8 | 4 | |
| 26 | 6 | 6 | 9 | 22 | 2 | 9 | 4 | 5 | 10 | 17 | 2 | 0 | 23.3 | 3 | 11 | 11 | 3 | 1 | 2 | 2 | 12 | 6 | 4 | 2 | 1 | 0 | 13 | 2 | 4 | 3 | 0 | 19.9 | 13 | 58 | 5 | 4 | |
| 27 | 21.4 | 3 | 8 | 51 | 13.9 | 9 | 22.3 | 1 | 9 | 45 | 0 | 0 | 2 | 0 | 10 | 40 | 0 | 23.1 | 1 | 17.8 | 11 | 35 | 1 | 24.2 | 0 | 18.7 | 12 | 31 | 2 | 25.3 | 25.9 | 5 | 13 | 26 | 3 | 26.4 | |
| 28 | 3 | 0 | 8 | 19 | 6 | 8 | 2 | 15.8 | 9 | 13 | 14.7 | 21.9 | 1 | 16.7 | 10 | 8 | 15.7 | 1 | 23.9 | 5 | 11 | 3 | 16.8 | 2 | 24.8 | 4 | 11 | 58 | 17.9 | 3 | 7 | 2 | 12 | 54 | 0 | 4 | |
| 29 | 2 | 14.6 | 7 | 46 | 3 | 20.8 | 0 | 5 | 8 | 40 | 4 | 9 | 22.9 | 3 | 9 | 35 | 4 | 0 | 8 | 2 | 10 | 30 | 5 | 1 | 7 | 0 | 11 | 25 | 6 | 3 | 6 | 18.9 | 12 | 21 | 18.7 | 4 | |
| 30 | 0 | 3 | 7 | 12 | 0 | 8 | 21.9 | 2 | 8 | 7 | 1 | 9 | 8 | 0 | 9 | 1 | 1 | 0 | 7 | 16.8 | 9 | 56 | 2 | 1 | 5 | 17.7 | 10 | 51 | 3 | 3 | 4 | 5 | 11 | 47 | 4 | 4 | |
| 31 | 20.9 | 0 | 6 | 38 | 12.7 | 7 | 8 | 14.8 | 7 | 32 | 13.8 | 8 | 6 | 15.7 | 8 | 27 | 14.8 | 0 | 5 | 5 | 9 | 22 | 15.9 | 24.1 | 4 | 3 | 10 | 17 | 0 | 25.2 | 25.3 | 2 | 11 | 13 | 1 | 4 | |
| 32 | 7 | 13.6 | 6 | 3 | 3 | 7 | 6 | 5 | 6 | 57 | 4 | 8 | 5 | 3 | 7 | 51 | 5 | 22.9 | 23.4 | 1 | 8 | 46 | 6 | 1 | 24.3 | 0 | 9 | 41 | 16.7 | 2 | 1 | 17.8 | 10 | 37 | 17.8 | 26.4 | |
| 33 | 6 | 3 | 5 | 27 | 0 | 6 | 5 | 1 | 6 | 21 | 1 | 21.8 | 22.4 | 14.9 | 7 | 15 | 2 | 9 | 2 | 15.8 | 8 | 10 | 3 | 1 | 1 | 16.6 | 9 | 5 | 4 | 2 | 0 | 4 | 10 | 1 | 5 | 3 | |
| 34 | 4 | 12.9 | 4 | 50 | 11.7 | 20.6 | 21.3 | 13.8 | 5 | 44 | 12.8 | 7 | 2 | 6 | 6 | 38 | 13.9 | 9 | 1 | 4 | 7 | 33 | 0 | 0 | 0 | 2 | 8 | 28 | 1 | 22.48 | 1 | 9 | 23 | 2 | 3 | | |
| 35 | 20.3 | 6 | 4 | 13 | 3 | 6 | 2 | 4 | 5 | 6 | 4 | 7 | 1 | 2 | 6 | 0 | 5 | 8 | 22.9 | 0 | 6 | 55 | 14.6 | 24.0 | 23.8 | 15.9 | 7 | 49 | 15.7 | 25.2 | 7 | 16.7 | 8 | 45 | 16.8 | 3 | |
| 36 | 1 | 2 | 3 | 34 | 10.9 | 5 | 0 | 0 | 4 | 27 | 0 | 7 | 21.9 | 13.8 | 5 | 21 | 1 | 8 | 8 | 14.6 | 6 | 16 | 2 | 0 | 6 | 5 | 7 | 10 | 3 | 1 | 5 | 3 | 8 | 5 | 5 | 3 | |
| 37 | 0 | 11.8 | 2 | 54 | 5 | 5 | 20.9 | 12.6 | 3 | 47 | 11.6 | 6 | 7 | 4 | 4 | 41 | 12.7 | 22.8 | 6 | 2 | 5 | 35 | 13.8 | 0 | 5 | 1 | 6 | 30 | 0 | 1 | 3 | 15.9 | 7 | 25 | 1 | 26.3 | |
| 38 | 19.8 | 4 | 2 | 13 | 1 | 4 | 7 | 2 | 3 | 6 | 2 | 21.6 | 6 | 0 | 4 | 0 | 3 | 7 | 4 | 13.8 | 4 | 54 | 4 | 0 | 3 | 14.7 | 5 | 48 | 14.6 | 1 | 2 | 5 | 6 | 43 | 15.7 | 3 | |
| 39 | 7 | 0 | 1 | 31 | 9.6 | 20.4 | 5 | 11.8 | 2 | 24 | 10.8 | 5 | 4 | 12.6 | 3 | 17 | 11.9 | 7 | 2 | 4 | 4 | 11 | 0 | 23.9 | 1 | 2 | 5 | 5 | 2 | 25.1 | 0 | 1 | 5 | 59 | 4 | 2 | |
| 40 | 5 | 10.6 | 0 | 48 | 2 | 4 | 4 | 4 | 1 | 40 | 4 | 5 | 2 | 2 | 2 | 33 | 5 | 7 | 1 | 0 | 3 | 27 | 12.6 | 9 | 22.9 | 13.8 | 4 | 20 | 13.8 | 0 | 23.8 | 14.6 | 5 | 15 | 0 | 2 | |
| 41 | 3 | 1 | 0 | 3 | 8.7 | 4 | 3 | 10.9 | 0 | 55 | 9.9 | 4 | 0 | 11.7 | 1 | 48 | 0 | 6 | 21.9 | 12.5 | 2 | 41 | 1 | 9 | 7 | 4 | 3 | 35 | 4 | 0 | 6 | 2 | 4 | 29 | 14.6 | 2 | |
| 42 | 1 | 9.7 | 29 | 17 | 2 | 3 | 1 | 5 | 0 | 9 | 4 | 4 | 20.8 | 3 | 1 | 1 | 10.5 | 22.6 | 7 | 1 | 1 | 54 | 11.6 | 9 | 5 | 12.9 | 2 | 48 | 12.9 | 0 | 4 | 13.7 | 3 | 41 | 1 | 26.2 | |
| 43 | 18.9 | 2 | 28 | 30 | 7.7 | 3 | 19.9 | 0 | 29 | 21 | 8.9 | 21.3 | 6 | 10.8 | 0 | 13 | 0 | 5 | 5 | 11.6 | 1 | 5 | 1 | 8 | 3 | 4 | 1 | 59 | 4 | 24.9 | 2 | 3 | 2 | 52 | 13.6 | 2 | |
| 44 | 7 | 8.7 | 27 | 41 | 1 | 20.2 | 7 | 9.5 | 28 | 32 | 4 | 3 | 4 | 3 | 29 | 23 | 9.5 | 5 | 3 | 1 | 0 | 15 | 10.6 | 23.8 | 1 | 11.9 | 1 | 8 | 11.9 | 9 | 0 | 12.8 | 2 | 1 | 1 | 1 | |
| 45 | 5 | 3 | 26 | 50 | 6.5 | 1 | 5 | 1 | 27 | 41 | 7.8 | 2 | 2 | 9.8 | 28 | 32 | 8.9 | 5 | 1 | 10.6 | 29 | 24 | 1 | 8 | 21.9 | 4 | 0 | 16 | 4 | 9 | 22.8 | 3 | 1 | 9 | 12.6 | 1 | |
| 46 | 3 | 7.8 | 25 | 58 | 0 | 1 | 3 | 8.6 | 26 | 48 | 2 | 2 | 0 | 3 | 27 | 39 | 3 | 4 | 20.8 | 1 | 28 | 30 | 9.5 | 7 | 7 | 10.9 | 29 | 22 | 10.8 | 8 | 6 | 11.8 | 0 | 14 | 0 | 1 | |
| 47 | 1 | 3 | 25 | 4 | 5.4 | 0 | 1 | 0 | 25 | 54 | 6.6 | 21.1 | 19.8 | 8.8 | 26 | 44 | 7.7 | 22.4 | 6 | 9.6 | 27 | 34 | 8.9 | 7 | 6 | 4 | 28 | 26 | 2 | 8 | 4 | 2 | 29 | 18 | 11 | 4 | 26.1 |
| 48 | 17.9 | 6.8 | 24 | 8 | 4.7 | 19.9 | 18.9 | 7.5 | 24 | 57 | 5.9 | 1 | 6 | 3 | 25 | 47 | 1 | 4 | 4 | 1 | 26 | 37 | 3 | 23.6 | 4 | 9 | 27 | 28 | 9.6 | 24.8 | 2 | 10.7 | 28 | 19 | 10.8 | 0 | |
| 49 | 7 | 3 | 23 | 10 | 0 | 9 | 7 | 6.9 | 23 | 58 | 2 | 0 | 4 | 7.8 | 24 | 48 | 6.4 | 3 | 2 | 8.6 | 25 | 37 | 7.6 | 6 | 2 | 3 | 26 | 27 | 8.9 | 7 | 21.9 | 1 | 27 | 18 | 1 | 0 | |
| 50 | 5 | 5.7 | 22 | 10 | 3.3 | 8 | 4 | 4 | 22 | 58 | 4.5 | 0 | 2 | 2 | 23 | 46 | 5.7 | 3 | 0 | 0 | 24 | 35 | 6.9 | 5 | 20.9 | 8.7 | 25 | 25 | 2 | 7 | 7 | 9.5 | 26 | 14 | 9.4 | 0 | |
| 51 | 2 | 1 | 21 | 7 | 2.5 | 7 | 2 | 5.8 | 21 | 55 | 3.7 | 20.9 | 18.9 | 6.6 | 22 | 42 | 4.9 | 22.2 | 19.7 | 7.4 | 23 | 31 | 1 | 5 | 6 | 1 | 24 | 20 | 7.4 | 6 | 4 | 8.9 | 25 | 9 | 8.7 | 25.9 | |
| 52 | 0 | 4.5 | 20 | 2 | 1.6 | 19.6 | 17.9 | 2 | 20 | 49 | 2.8 | 9 | 7 | 0 | 21 | 36 | 1 | 1 | 4 | 6.8 | 22 | 24 | 5.3 | 23.4 | 3 | 7.5 | 23 | 12 | 6.6 | 24.6 | 1 | 3 | 24 | 0 | 7.9 | 9 | |
| 53 | 16.8 | 3.9 | 18 | 55 | 0.7 | 5 | 6 | 4.6 | 19 | 41 | 1.9 | 8 | 5 | 5.4 | 20 | 27 | 3.2 | 1 | 2 | 1 | 21 | 14 | 4.4 | 3 | 1 | 6.8 | 22 | 1 | 5.7 | 5 | 20.9 | 7.6 | 22 | 49 | 0 | 9 | |
| 54 | 5 | 2 | 17 | 45 | 29.7 | 4 | 3 | 3.9 | 18 | 30 | 0.9 | 7 | 2 | 4.7 | 19 | 16 | 2.2 | 0 | 0 | 5.4 | 20 | 1 | 3.4 | 3 | 19.8 | 1 | 20 | 45 | 4.7 | 5 | 6 | 6.9 | 21 | 35 | 6.0 | 8 | |
| 55 | 2 | 2.5 | 16 | 32 | 28.6 | 3 | 0 | 2 | 17 | 17 | 29.8 | 6 | 17.9 | 0 | 18 | 1 | 1.1 | 21.9 | 18.7 | 4.7 | 18 | 46 | 2.3 | 2 | 5 | 5.4 | 19 | 31 | 3.6 | 5 | 3 | 2 | 20 | 17 | 4.9 | 8 | |
| 56 | 15.9 | 1.8 | 15 | 17 | 27.4 | 2 | 16.7 | 2.5 | 16 | 0 | 28.6 | 4 | 5 | 3.3 | 16 | 43 | 29.9 | 8 | 3 | 0 | 17 | 27 | 1.1 | 1 | 1 | 4.7 | 18 | 12 | 2.4 | 4 | 0 | 5.4 | 18 | 56 | 3.7 | 8 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 13 47 49 } \approx ARC 206° 57'.2 } 29° | | | | | | H. M. S. 13 51 38 } \approx 0° 207° 54'.5 } \approx 0° | | | | | | H. M. S. 13 55 27 } \approx 1° 208° 51'.9 } \approx 1° | | | | | | H. M. S. 13 59 18 } \approx 2° 209° 49'.4 } \approx 2° | | | | | | H. M. S. 14 3 8 } \approx 3° 210° 47'.1 } \approx 3° | | | | | | H. M. S. 14 7 0 } \approx 4° 211° 44'.9 } \approx 4° | | | | | | |
|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|-----|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | m | f | h | h | h | m | f | h | h | h | m | f | h | h | h | m | f | h | h | h | f | f | h | h | h | f | f | h | h | h | f | f | h | h | h | |
| 22 | 26.5 | 21.1 | 15 | 58 | 20.5 | 26.5 | 27.4 | 22.0 | 16 | 54 | 21.6 | 27.6 | 28.3 | 22.8 | 17 | 51 | 22.7 | 28.7 | 29.2 | 23.7 | 18 | 48 | 23.8 | 29.8 | 0.1 | 24.6 | 19 | 46 | 24.9 | 0.9 | 1.0 | 25.4 | 20 | 44 | 25.9 | 2.0 |
| 23 | 4 | 20.8 | 15 | 29 | 3 | 5 | 3 | 21.7 | 16 | 25 | 3 | 6 | 2 | 5 | 17 | 22 | 4 | 7 | 1 | 4 | 18 | 19 | 5 | 8 | 0 | 3 | 19 | 17 | 7 | 9 | 0.9 | 1 | 20 | 15 | 7 | 0 |
| 24 | 3 | 5 | 14 | 59 | 0 | 5 | 2 | 4 | 15 | 56 | 1 | 6 | 1 | 2 | 16 | 52 | 2 | 7 | 0 | 1 | 17 | 50 | 3 | 8 | 29.8 | 0 | 18 | 48 | 4 | 9 | 7 | 24.8 | 19 | 46 | 5 | 0 |
| 25 | 1 | 2 | 14 | 29 | 19.8 | 4 | 0 | 0 | 15 | 25 | 20.9 | 6 | 27.9 | 21.9 | 16 | 22 | 0 | 7 | 28.8 | 22.8 | 17 | 20 | 1 | 8 | 7 | 23.6 | 18 | 17 | 2 | 9 | 6 | 5 | 19 | 16 | 3 | 0 |
| 26 | 0 | 19.9 | 13 | 58 | 5 | 4 | 26.9 | 20.7 | 14 | 54 | 6 | 6 | 8 | 6 | 15 | 51 | 21.7 | 7 | 7 | 4 | 16 | 49 | 22.9 | 8 | 6 | 3 | 17 | 47 | 0 | 9 | 5 | 2 | 18 | 45 | 1 | 0 |
| 27 | 25.9 | 5 | 13 | 26 | 3 | 26.4 | 7 | 4 | 14 | 23 | 4 | 27.5 | 6 | 3 | 15 | 20 | 5 | 28.7 | 5 | 1 | 16 | 17 | 6 | 29.8 | 4 | 0 | 17 | 15 | 23.7 | 0.9 | 0.3 | 23.8 | 18 | 13 | 24.9 | 2.1 |
| 28 | 7 | 2 | 12 | 54 | 0 | 4 | 6 | 1 | 13 | 51 | 1 | 5 | 5 | 20.9 | 14 | 47 | 2 | 7 | 4 | 21.8 | 15 | 45 | 3 | 8 | 29.3 | 22.6 | 16 | 43 | 5 | 9 | 2 | 5 | 17 | 41 | 6 | 1 |
| 29 | 6 | 18.9 | 12 | 21 | 18.7 | 4 | 5 | 19.7 | 13 | 17 | 19.8 | 5 | 27.3 | 6 | 14 | 14 | 0 | 7 | 2 | 4 | 15 | 12 | 1 | 8 | 1 | 3 | 16 | 9 | 2 | 9 | 0 | 2 | 17 | 8 | 4 | 1 |
| 30 | 4 | 5 | 11 | 47 | 4 | 4 | 26.3 | 4 | 12 | 44 | 6 | 5 | 2 | 2 | 13 | 40 | 20.7 | 7 | 1 | 1 | 14 | 38 | 21.8 | 8 | 0 | 21.9 | 15 | 35 | 0 | 9 | 29.9 | 22.8 | 16 | 34 | 1 | 1 |
| 31 | 25.3 | 2 | 11 | 13 | 1 | 4 | 2 | 0 | 12 | 9 | 3 | 5 | 0 | 19.9 | 13 | 6 | 4 | 6 | 27.9 | 20.7 | 14 | 3 | 5 | 8 | 28.8 | 6 | 15 | 1 | 22.7 | 0.9 | 7 | 5 | 15 | 59 | 23.8 | 1 |
| 32 | 1 | 17.8 | 10 | 37 | 17.8 | 26.4 | 0 | 18.7 | 11 | 33 | 18.9 | 27.5 | 26.9 | 5 | 12 | 30 | 1 | 28.6 | 8 | 4 | 13 | 27 | 2 | 29.8 | 7 | 2 | 14 | 25 | 4 | 9 | 5 | 1 | 15 | 23 | 6 | 2.1 |
| 33 | 0 | 4 | 10 | 1 | 5 | 3 | 25.9 | 3 | 10 | 57 | 6 | 5 | 7 | 1 | 11 | 53 | 19.8 | 6 | 6 | 0 | 12 | 50 | 20.9 | 8 | 5 | 20.8 | 13 | 48 | 1 | 9 | 4 | 21.7 | 14 | 46 | 3 | 1 |
| 34 | 24.8 | 1 | 9 | 23 | 2 | 3 | 7 | 17.9 | 10 | 19 | 3 | 5 | 6 | 18.8 | 11 | 16 | 5 | 6 | 5 | 19.6 | 12 | 13 | 6 | 8 | 3 | 5 | 13 | 10 | 21.8 | 9 | 2 | 3 | 14 | 9 | 0 | 1 |
| 35 | 7 | 16.7 | 8 | 45 | 16.8 | 3 | 5 | 5 | 9 | 41 | 0 | 5 | 4 | 4 | 10 | 37 | 1 | 6 | 3 | 2 | 11 | 34 | 3 | 8 | 2 | 1 | 12 | 32 | 5 | 1.0 | 0 | 20.9 | 13 | 30 | 22.7 | 1 |
| 36 | 5 | 3 | 8 | 5 | 5 | 3 | 4 | 1 | 9 | 1 | 17.6 | 5 | 2 | 0 | 9 | 57 | 18.8 | 6 | 1 | 18.8 | 10 | 54 | 0 | 8 | 1 | 19.7 | 11 | 52 | 2 | 0 | 28.9 | 5 | 12 | 50 | 3 | 1 |
| 37 | 3 | 15.9 | 7 | 25 | 1 | 26.3 | 3 | 16.7 | 8 | 20 | 2 | 27.4 | 1 | 17.6 | 9 | 16 | 4 | 28.6 | 26.9 | 4 | 10 | 13 | 19.6 | 29.8 | 27.9 | 3 | 11 | 10 | 20.8 | 0 | 7 | 1 | 12 | 8 | 0 | 2.2 |
| 38 | 2 | 5 | 6 | 43 | 15.7 | 3 | 1 | 3 | 7 | 38 | 16.9 | 4 | 25.9 | 2 | 8 | 34 | 1 | 6 | 8 | 0 | 9 | 31 | 2 | 8 | 7 | 18.8 | 10 | 28 | 4 | 0 | 5 | 19.7 | 11 | 25 | 21.7 | 2 |
| 39 | 0 | 1 | 5 | 59 | 4 | 2 | 24.9 | 15.9 | 6 | 54 | 5 | 4 | 7 | 16.7 | 7 | 50 | 17.7 | 6 | 6 | 17.6 | 8 | 47 | 18.9 | 8 | 5 | 4 | 9 | 44 | 1 | 0 | 3 | 3 | 10 | 41 | 4 | 2 |
| 40 | 23.8 | 14.6 | 5 | 15 | 0 | 2 | 7 | 5 | 6 | 10 | 1 | 4 | 5 | 3 | 7 | 5 | 3 | 6 | 4 | 1 | 8 | 1 | 5 | 8 | 3 | 0 | 8 | 58 | 19.7 | 1.0 | 1 | 18.8 | 9 | 55 | 0 | 2 |
| 41 | 6 | 2 | 4 | 29 | 14.6 | 2 | 5 | 0 | 5 | 23 | 15.7 | 4 | 3 | 15.8 | 6 | 19 | 16.9 | 6 | 2 | 16.7 | 7 | 15 | 1 | 8 | 1 | 17.5 | 8 | 11 | 3 | 0 | 27.9 | 4 | 9 | 8 | 20.6 | 2 |
| 42 | 4 | 13.7 | 3 | 41 | 1 | 26.2 | 3 | 14.6 | 4 | 36 | 2 | 27.4 | 1 | 4 | 5 | 31 | 4 | 28.6 | 0 | 2 | 6 | 26 | 17.7 | 29.8 | 26.9 | 0 | 7 | 22 | 18.9 | 0 | 7 | 17.9 | 8 | 19 | 2 | 2.2 |
| 43 | 2 | 3 | 2 | 52 | 13.6 | 2 | 1 | 1 | 3 | 46 | 14.7 | 4 | 24.9 | 14.9 | 4 | 41 | 15.9 | 6 | 25.8 | 15.7 | 5 | 36 | 2 | 8 | 7 | 16.5 | 6 | 32 | 5 | 0 | 5 | 4 | 7 | 29 | 19.8 | 2 |
| 44 | 0 | 12.8 | 2 | 1 | 1 | 1 | 23.9 | 13.6 | 2 | 55 | 2 | 4 | 7 | 4 | 3 | 49 | 4 | 6 | 6 | 2 | 4 | 44 | 16.7 | 8 | 5 | 0 | 5 | 40 | 0 | 1.0 | 3 | 16.9 | 6 | 36 | 3 | 2 |
| 45 | 22.8 | 3 | 1 | 9 | 12.6 | 1 | 7 | 1 | 2 | 2 | 13.7 | 3 | 5 | 13.9 | 2 | 56 | 14.9 | 5 | 3 | 14.7 | 3 | 50 | 2 | 8 | 3 | 15.5 | 4 | 46 | 17.5 | 0 | 1 | 3 | 5 | 42 | 18.8 | 2 |
| 46 | 6 | 11.8 | 0 | 14 | 0 | 1 | 5 | 12.6 | 1 | 7 | 2 | 3 | 3 | 4 | 2 | 0 | 4 | 5 | 1 | 2 | 2 | 55 | 15.7 | 8 | 1 | 0 | 3 | 50 | 0 | 0 | 26.9 | 15.8 | 4 | 45 | 3 | 3 |
| 47 | 4 | 2 | 29 | 18 | 11.4 | 26.1 | 3 | 0 | 0 | 10 | 12.6 | 27.3 | 1 | 12.8 | 1 | 3 | 13.8 | 28.5 | 24.9 | 13.6 | 1 | 56 | 1 | 29.8 | 25.8 | 14.4 | 2 | 51 | 16.4 | 0 | 7 | 2 | 3 | 46 | 17.8 | 2.3 |
| 48 | 2 | 10.7 | 28 | 19 | 10.8 | 0 | 0 | 11.5 | 29 | 11 | 0 | 3 | 23.9 | 3 | 0 | 3 | 2 | 5 | 7 | 1 | 0 | 56 | 14.5 | 8 | 6 | 13.9 | 1 | 50 | 15.8 | 1.0 | 4 | 14.7 | 2 | 45 | 2 | 3 |
| 49 | 21.9 | 1 | 27 | 18 | 1 | 0 | 22.8 | 10.9 | 28 | 9 | 11.4 | 3 | 7 | 11.7 | 29 | 1 | 12.6 | 5 | 5 | 12.5 | 29 | 53 | 13.9 | 8 | 3 | 3 | 0 | 47 | 2 | 0 | 1 | 1 | 1 | 41 | 16.6 | 3 |
| 50 | 7 | 9.5 | 26 | 14 | 9.4 | 0 | 5 | 3 | 27 | 5 | 10.7 | 2 | 4 | 1 | 27 | 56 | 11.9 | 5 | 2 | 11.9 | 28 | 48 | 2 | 8 | 0 | 12.7 | 29 | 41 | 14.5 | 0 | 25.9 | 13.5 | 0 | 34 | 15.9 | 3 |
| 51 | 4 | 8.9 | 25 | 9 | 8.7 | 25.9 | 2 | 9.6 | 25 | 59 | 0 | 2 | 1 | 10.5 | 26 | 49 | 2 | 5 | 23.9 | 3 | 27 | 40 | 12.5 | 8 | 24.7 | 1 | 28 | 32 | 13.8 | 1 | 6 | 12.9 | 29 | 24 | 2 | 3 |
| 52 | 1 | 3 | 24 | 0 | 7.9 | 9 | 21.9 | 0 | 24 | 49 | 9.2 | 27.2 | 22.8 | 9.9 | 25 | 39 | 10.4 | 28.5 | 6 | 10.6 | 26 | 29 | 11.7 | 29.8 | 4 | 11.4 | 27 | 20 | 0 | 1.1 | 3 | 2 | 28 | 12 | 14.4 | 2.3 |
| 53 | 20.9 | 7.6 | 22 | 49 | 0 | 9 | 6 | 8.3 | 23 | 37 | 8.3 | 2 | 5 | 2 | 24 | 76 | 9.5 | 4 | 3 | 9.9 | 25 | 16 | 10.8 | 8 | 2 | 10.7 | 26 | 6 | 12.2 | 1 | 0 | 11.5 | 26 | 56 | 13.6 | 4 |
| 54 | 6 | 6.9 | 21 | 35 | 6.0 | 8 | 4 | 7.6 | 22 | 22 | 7.3 | 1 | 2 | 8.5 | 23 | 10 | 8.5 | 4 | 0 | 2 | 23 | 58 | 9.9 | 8 | 23.9 | 0 | 24 | 48 | 11.3 | 1 | 24.7 | 10.7 | 25 | 37 | 12.7 | 4 |
| 55 | 3 | 2 | 20 | 17 | 4.9 | 8 | 1 | 6.9 | 21 | 3 | 6.2 | 1 | 21.9 | 7.7 | 21 | 50 | 7.5 | 4 | 22.7 | 8.4 | 22 | 38 | 8.9 | 8 | 6 | 9.2 | 23 | 26 | 10.3 | 1 | 4 | 9.9 | 24 | 15 | 11.7 | 4 |
| 56 | 0 | 5.4 | 18 | 56 | 3.7 | 8 | 20.8 | 1 | 19 | 42 | 5.0 | 1 | 5 | 6.9 | 20 | 27 | 6.4 | 4 | 3 | 7.6 | 21 | 14 | 7.8 | 8 | 2 | 8.4 | 22 | 1 | 9.2 | 1 | 0 | 1 | 22 | 48 | 10.6 | 4 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 14 10 52 } m ARC 212° 42'.9 } 5° | | | | | | H. M. S. 14 14 44 } m 6° 213° 41'.0 } 6° | | | | | | H. M. S. 14 18 37 } m 7° 214° 39'.4 } 7° | | | | | | H. M. S. 14 22 31 } m 8° 215° 37'.8 } 8° | | | | | | H. M. S. 14 26 26 } m 9° 216° 36'.5 } 9° | | | | | | H. M. S. 14 30 21 } m 10° 217° 35'.3 } 10° | | | | | | |
|---|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|--|------|------|----|----|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | f | f | ° | ° | ° | f | f | ° | ° | ° | f | f | ° | ° | ° | f | f | ° | ° | ° | f | f | ° | ° | ° | f | f | ° | ° | ° | f | ° | ° | ° | ° | |
| 22 | 1.9 | 26.3 | 21 | 43 | 27.1 | 3.1 | 2.8 | 27.2 | 22 | 42 | 28.2 | 4.3 | 3.7 | 28.1 | 23 | 41 | 29.3 | 5.4 | 4.6 | 29.0 | 24 | 41 | 0.5 | 6.5 | 5.5 | 29.9 | 25 | 42 | 1.6 | 7.6 | 6.4 | 0.8 | 26 | 43 | 2.8 | 8.5 |
| 23 | 8 | 0 | 21 | 14 | 26.9 | 2 | 7 | 26.9 | 22 | 13 | 0 | 3 | 6 | 27.8 | 23 | 13 | 2 | 4 | 5 | 28.7 | 24 | 13 | 3 | 5 | 4 | 6 | 25 | 13 | 4 | 7 | 3 | 5 | 26 | 14 | 6 | 8 |
| 24 | 6 | 25.7 | 20 | 45 | 7 | 2 | 5 | 6 | 21 | 44 | 27.8 | 3 | 4 | 5 | 22 | 43 | 0 | 4 | 3 | 3 | 23 | 43 | 1 | 6 | 2 | 2 | 24 | 44 | 2 | 7 | 1 | 1 | 25 | 45 | 4 | 8 |
| 25 | 5 | 4 | 20 | 14 | 5 | 2 | 4 | 3 | 21 | 14 | 6 | 3 | 3 | 1 | 22 | 13 | 28.8 | 4 | 2 | 0 | 23 | 14 | 29.9 | 6 | 1 | 28.9 | 24 | 14 | 0 | 7 | 0 | 29.8 | 25 | 16 | 2 | 9 |
| 26 | 1.4 | 0 | 19 | 43 | 2 | 2 | 2 | 25.9 | 20 | 43 | 4 | 3 | 1 | 26.8 | 21 | 43 | 6 | 5 | 0 | 27.7 | 22 | 43 | 7 | 6 | 4.9 | 6 | 23 | 44 | 0.8 | 7.7 | 5.8 | 5 | 24 | 46 | 0 | 9 |
| 27 | 2 | 24.7 | 19 | 12 | 0 | 3.2 | 1 | 6 | 20 | 11 | 2 | 4.3 | 0 | 5 | 21 | 11 | 3 | 5.5 | 3.9 | 4 | 22 | 12 | 5 | 6.6 | 8 | 3 | 23 | 13 | 6 | 8 | 7 | 1 | 24 | 15 | 1.8 | 9 |
| 28 | 1 | 4 | 18 | 40 | 25.8 | 2 | 1.9 | 3 | 19 | 39 | 26.9 | 3 | 2.8 | 1 | 20 | 39 | 1 | 5 | 7 | 0 | 21 | 39 | 3 | 7 | 6 | 27.9 | 22 | 41 | 4 | 8 | 5 | 28.8 | 23 | 43 | 6 | 9.0 |
| 29 | 0.9 | 0 | 18 | 7 | 5 | 2 | 8 | 24.9 | 19 | 6 | 7 | 4 | 7 | 25.8 | 20 | 6 | 27.9 | 5 | 6 | 26.7 | 21 | 7 | 0 | 7 | 5 | 6 | 22 | 8 | 2 | 8 | 4 | 5 | 23 | 10 | 4 | 0 |
| 30 | 7 | 23.7 | 17 | 33 | 3 | 2 | 6 | 6 | 18 | 32 | 4 | 4 | 5 | 4 | 19 | 32 | 6 | 5 | 4 | 3 | 20 | 33 | 28.8 | 7 | 4.3 | 2 | 21 | 34 | 0 | 7.9 | 2 | 1 | 22 | 36 | 2 | 0 |
| 31 | 6 | 3 | 16 | 58 | 0 | 2 | 5 | 2 | 17 | 57 | 2 | 4 | 4 | 1 | 18 | 57 | 4 | 6 | 3 | 0 | 19 | 58 | 6 | 6.7 | 1 | 26.9 | 20 | 59 | 29.8 | 9 | 0 | 27.7 | 22 | 1 | 0 | 1 |
| 32 | 4 | 0 | 16 | 22 | 24.7 | 3.3 | 1.3 | 23.8 | 17 | 22 | 25.9 | 4.4 | 2 | 24.7 | 18 | 22 | 1 | 5.6 | 1 | 25.6 | 19 | 22 | 3 | 8 | 0 | 5 | 20 | 23 | 5 | 9 | 4.9 | 4 | 21 | 25 | 0.7 | 1 |
| 33 | 3 | 22.6 | 15 | 45 | 4 | 3 | 1 | 5 | 16 | 45 | 6 | 4 | 0 | 3 | 17 | 45 | 26.8 | 6 | 2.9 | 2 | 18 | 45 | 0 | 8 | 3.8 | 1 | 19 | 46 | 3 | 8.0 | 7 | 0 | 20 | 48 | 5 | 9.1 |
| 34 | 1 | 2 | 15 | 7 | 1 | 3 | 0 | 1 | 16 | 7 | 3 | 5 | 1.9 | 23.9 | 17 | 7 | 5 | 6 | 8 | 24.8 | 18 | 7 | 27.8 | 8 | 6 | 25.7 | 19 | 8 | 0 | 0 | 5 | 26.6 | 20 | 10 | 2 | 2 |
| 35 | 29.9 | 21.8 | 14 | 28 | 23.8 | 3 | 0.8 | 22.7 | 15 | 28 | 0 | 5 | 7 | 5 | 16 | 27 | 3 | 7 | 6 | 4 | 17 | 28 | 5 | 6.8 | 5 | 3 | 18 | 29 | 28.7 | 0 | 4 | 2 | 19 | 31 | 0 | 2 |
| 36 | 8 | 4 | 13 | 48 | 5 | 3 | 6 | 3 | 14 | 47 | 24.7 | 5 | 6 | 1 | 15 | 47 | 0 | 7 | 4 | 0 | 16 | 47 | 2 | 9 | 3 | 24.9 | 17 | 49 | 4 | 1 | 2 | 25.8 | 18 | 50 | 29.7 | 2 |
| 37 | 6 | 0 | 13 | 6 | 2 | 3.3 | 4 | 21.8 | 14 | 6 | 4 | 4.5 | 4 | 22.7 | 15 | 5 | 25.7 | 5.7 | 2 | 23.6 | 16 | 5 | 0 | 9 | 1 | 5 | 17 | 7 | 2 | 1 | 0 | 4 | 18 | 9 | 5 | 3 |
| 38 | 4 | 20.6 | 12 | 23 | 22.9 | 4 | 3 | 4 | 13 | 22 | 1 | 5 | 2 | 3 | 14 | 22 | 4 | 7 | 0 | 2 | 15 | 22 | 26.7 | 9 | 2.9 | 0 | 16 | 23 | 27.9 | 8.1 | 3.8 | 24.9 | 17 | 25 | 2 | 9.3 |
| 39 | 2 | 1 | 11 | 39 | 6 | 4 | 1 | 0 | 12 | 38 | 23.7 | 6 | 0 | 21.8 | 13 | 37 | 1 | 8 | 1.8 | 22.7 | 14 | 37 | 3 | 7.0 | 7 | 23.6 | 15 | 38 | 6 | 2 | 6 | 5 | 16 | 40 | 28.9 | 4 |
| 40 | 0 | 19.7 | 10 | 53 | 2 | 4 | 29.9 | 20.5 | 11 | 52 | 4 | 6 | 0.8 | 4 | 12 | 51 | 24.7 | 8 | 6 | 3 | 13 | 51 | 0 | 0 | 5 | 1 | 14 | 52 | 3 | 2 | 4 | 0 | 15 | 53 | 6 | 4 |
| 41 | 28.8 | 2 | 10 | 6 | 21.8 | 4 | 7 | 1 | 11 | 4 | 0 | 6 | 6 | 20.9 | 12 | 3 | 3 | 8 | 4 | 21.8 | 13 | 3 | 25.6 | 0 | 3 | 22.6 | 14 | 4 | 0 | 3 | 2 | 23.5 | 15 | 5 | 3 | 5 |
| 42 | 6 | 18.7 | 9 | 17 | 4 | 3.4 | 5 | 19.6 | 10 | 15 | 22.6 | 4.6 | 4 | 4 | 11 | 14 | 23.9 | 5.9 | 2 | 3 | 12 | 14 | 2 | 1 | 1 | 1 | 13 | 13 | 26.6 | 8.3 | 2.9 | 0 | 14 | 15 | 27.9 | 9.5 |
| 43 | 4 | 2 | 8 | 26 | 0 | 4 | 3 | 1 | 9 | 24 | 2 | 6 | 2 | 19.9 | 10 | 23 | 5 | 9 | 0 | 20.8 | 11 | 22 | 24.8 | 1 | 1.8 | 21.6 | 12 | 22 | 2 | 4 | 7 | 22.5 | 13 | 22 | 5 | 6 |
| 44 | 2 | 17.7 | 7 | 33 | 20.6 | 5 | 0 | 18.5 | 8 | 31 | 21.8 | 7 | 0 | 4 | 9 | 29 | 1 | 9 | 0.7 | 2 | 10 | 28 | 4 | 7.2 | 6 | 1 | 11 | 28 | 25.8 | 4 | 5 | 21.9 | 12 | 28 | 1 | 6 |
| 45 | 0 | 2 | 6 | 38 | 1 | 5 | 28.8 | 0 | 7 | 35 | 4 | 7 | 29.8 | 18.8 | 8 | 33 | 22.7 | 9 | 5 | 19.7 | 9 | 32 | 0 | 2 | 4 | 20.5 | 10 | 31 | 4 | 5 | 2 | 4 | 11 | 31 | 26.7 | 7 |
| 46 | 27.8 | 16.6 | 5 | 41 | 19.6 | 5 | 6 | 17.4 | 6 | 38 | 20.9 | 4.7 | 5 | 3 | 7 | 35 | 2 | 6.0 | 3 | 1 | 8 | 33 | 23.5 | 3 | 2 | 0 | 9 | 32 | 0 | 8.5 | 0 | 20.8 | 10 | 32 | 3 | 9.7 |
| 47 | 5 | 1 | 4 | 41 | 1 | 3.5 | 4 | 16.9 | 5 | 38 | 4 | 7 | 3 | 17.7 | 6 | 35 | 21.7 | 0 | 0 | 18.5 | 7 | 32 | 0 | 3 | 0 | 19.4 | 8 | 31 | 24.5 | 5 | 1.8 | 2 | 9 | 31 | 25.8 | 8 |
| 48 | 3 | 15.5 | 3 | 39 | 18.5 | 6 | 1 | 3 | 4 | 36 | 19.8 | 7 | 0 | 1 | 5 | 32 | 2 | 0 | 29.8 | 17.9 | 6 | 29 | 22.5 | 7.3 | 0.7 | 18.8 | 7 | 27 | 0 | 6 | 6 | 19.6 | 8 | 26 | 3 | 8 |
| 49 | 0 | 14.9 | 2 | 35 | 17.9 | 6 | 27.9 | 15.7 | 3 | 30 | 2 | 8 | 28.7 | 16.5 | 4 | 26 | 20.6 | 1 | 6 | 3 | 5 | 23 | 0 | 4 | 4 | 2 | 6 | 20 | 23.4 | 6 | 3 | 0 | 7 | 19 | 24.8 | 9 |
| 50 | 26.7 | 3 | 1 | 28 | 2 | 6 | 6 | 1 | 2 | 22 | 18.6 | 4.8 | 4 | 15.9 | 3 | 18 | 0 | 1 | 3 | 16.7 | 4 | 14 | 21.4 | 4 | 1 | 17.5 | 5 | 11 | 22.8 | 8.7 | 0 | 18.4 | 6 | 8 | 2 | 10.0 |
| 51 | 4 | 13.6 | 0 | 18 | 16.5 | 6 | 3 | 14.4 | 1 | 11 | 17.9 | 8 | 1 | 2 | 2 | 6 | 19.4 | 6.1 | 0 | 0 | 3 | 1 | 20.8 | 4 | 29.8 | 16.9 | 3 | 58 | 2 | 7 | 0.7 | 17.7 | 4 | 55 | 23.6 | 0 |
| 52 | 1 | 12.9 | 29 | 4 | 15.8 | 3.6 | 26.9 | 13.7 | 29 | 57 | 2 | 9 | 27.8 | 14.5 | 0 | 51 | 18.7 | 2 | 28.6 | 15.3 | 1 | 46 | 1 | 7.5 | 5 | 2 | 24 | 1 | 21.5 | 8 | 5 | 0 | 3 | 37 | 22.9 | 1 |
| 53 | 25.8 | 2 | 27 | 48 | 0 | 7 | 6 | 0 | 28 | 40 | 16.4 | 9 | 6 | 13.8 | 29 | 33 | 17.9 | 2 | 3 | 14.6 | 0 | 26 | 19.3 | 6 | 2 | 15.4 | 1 | 21 | 20.7 | 9 | 0 | 16.2 | 2 | 16 | 2 | 2 |
| 54 | 5 | 11.5 | 26 | 28 | 14.1 | 7 | 3 | 12.3 | 27 | 19 | 15.5 | 5.0 | 3 | 0 | 28 | 11 | 0 | 3 | 0 | 13.8 | 29 | 3 | 18.4 | 7 | 28.9 | 14.6 | 29 | 57 | 19.9 | 9.0 | 29.7 | 15.4 | 0 | 51 | 21.4 | 10.3 |
| 55 | 2 | 10.7 | 25 | 4 | 13.1 | 7 | 0 | 11.5 | 25 | 51 | 14.5 | 1 | 26.9 | 12.3 | 26 | 45 | 16.0 | 4 | 27.7 | 0 | 27 | 36 | 17.5 | 7 | 5 | 13.8 | 28 | 28 | 0 | 0 | 3 | 14 | 20 | 21 | 20.5 | 4 |
| 56 | 24.8 | 9.9 | 23 | 36 | 12.0 | 7 | 25.6 | 10.7 | 24 | 25 | 13.4 | 1 | 5 | 11.5 | 25 | 15 | 14.9 | 5 | 3 | 12.2 | 26 | 5 | 16.5 | 8 | 1 | 0 | 26 | 56 | 18.0 | 1 | 28.9 | 13.8 | 27 | 48 | 19.8 | 5 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 14 30 21 } m ARC 217° 35'.3 } 10° | | | | | | H. M. S. 14 34 17 } m 11° 218° 34'.3 } | | | | | | H. M. S. 14 38 14 } m 12° 219° 33'.4 } | | | | | | H. M. S. 14 42 11 } m 13° 220° 32'.8 } | | | | | | H. M. S. 14 46 9 } m 14° 221° 32'.3 } | | | | | | H. M. S. 14 50 8 } m 15° 222° 32'.0 } | | | | | |
|--|------|------|-------|------|------|--|------|-------|--------|------|-----|--|-------|------|------|-----|------|--|--------|------|------|------|-------|---|------|-------|------|-------|-------|---|-------|---|---|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | f | g | h | k | p | f | g | h | k | p | f | g | h | k | p | f | g | h | k | p | f | g | h | k | p | f | g | h | k | p | | | | | |
| 22 | 6.4 | 0.8 | 26.43 | 2.8 | 8.8 | 7.3 | 1.7 | 27.44 | 3.9 | 9.9 | 8.2 | 2.6 | 28.46 | 5.1 | 11.0 | 9.1 | 3.5 | 29.49 | 6.3 | 12.2 | 10.1 | 4.4 | 0.52 | 7.4 | 13.3 | 11.0 | 5.3 | 1.56 | 8.6 | 14.5 | | | | | |
| 23 | 3 | 5 | 26.14 | 6 | 8 | 2 | 4 | 27.16 | 7 | 9 | 1 | 3 | 28.18 | 4.9 | 1 | 0 | 2 | 29.21 | 1 | 2 | 9.9 | 1 | 0.25 | 3 | 4 | 10.8 | 0 | 1 | 29 | 5 | 5 | | | | |
| 24 | 1 | 1 | 25.45 | 4 | 8 | 0 | 0 | 26.47 | 6 | 10.0 | 0 | 1 | 27.50 | 8 | 1 | 8.9 | 2 | 28.53 | 5.9 | 3 | 8 | 3 | 8 | 29.56 | 1 | 4 | 7 | 4.7 | 1 | 1 | 4 | 6 | | | |
| 25 | 0 | 29.8 | 25.16 | 2 | 9 | 6.9 | 0.7 | 26.18 | 4 | 0 | 7.8 | 6 | 27.20 | 6 | 1 | 7 | 5 | 28.24 | 8 | 3 | 6 | 4 | 29.27 | 0 | 4 | 5 | 4 | 0.32 | 2 | 6 | | | | | |
| 26 | 5.8 | 5 | 24.46 | 0 | 9 | 7 | 4 | 25.48 | 2 | 0 | 7 | 3 | 26.50 | 4 | 2 | 6 | 2 | 27.54 | 6 | 3 | 5 | 1 | 28.57 | 6.8 | 5 | 4 | 0 | 0 | 2 | 1 | 7 | | | | |
| 27 | 7 | 1 | 24.15 | 1.8 | 9 | 6 | 0 | 25.17 | 0 | 1 | 5 | 0 | 26.19 | 2 | 11.2 | 4 | 1 | 27.23 | 5 | 12.4 | 9.3 | 2 | 8 | 28.27 | 7 | 13.5 | 2 | 3.7 | 29.32 | 7.9 | 14.7 | | | | |
| 28 | 5 | 28.8 | 23.43 | 6 | 9.0 | 4 | 29.7 | 24.45 | 2.8 | 1 | 3 | 6 | 25.48 | 0 | 3 | 2 | 5 | 26.51 | 3 | 4 | 1 | 4 | 27.55 | 5 | 6 | 0 | 3 | 29 | 0 | 7 | 8 | | | | |
| 29 | 4 | 5 | 23.10 | 4 | 0 | 3 | 4 | 24.12 | 6 | 10.1 | 2 | 3 | 25.15 | 3.8 | 3 | 1 | 2 | 26.18 | 1 | 5 | 0 | 1 | 27.23 | 3 | 6 | 9.9 | 0 | 28 | 28 | 6 | 8 | | | | |
| 30 | 2 | 1 | 22.36 | 2 | 0 | 1 | 0 | 23.38 | 4 | 2 | 0 | 29.9 | 24.41 | 6 | 4 | 7.9 | 0 | 8 | 25.45 | 4.9 | 5 | 8.8 | 1 | 7 | 6 | 26.49 | 1 | 7 | 7 | 2.6 | 27.55 | 4 | 9 | | |
| 31 | 0 | 27.7 | 22.1 | 0 | 1 | 5.9 | 28.6 | 23.3 | 2 | 2 | 6.8 | 5 | 24.6 | 4 | 4 | 7 | 5 | 25.10 | 7 | 12.6 | 6 | 4 | 26.15 | 5.9 | 13.7 | 5 | 3 | 27.20 | 2 | 9 | | | | | |
| 32 | 4.9 | 4 | 21.25 | 0.7 | 1 | 8 | 3 | 22.27 | 0 | 3 | 7 | 2 | 23.31 | 2 | 11.4 | 6 | 1 | 24.35 | 5 | 6 | 5 | 0 | 25.39 | 7 | 8 | 4 | 1 | 9 | 26.45 | 0 | 15.0 | | | | |
| 33 | 7 | 0 | 20.48 | 5 | 9.1 | 6 | 27.9 | 21.51 | 1.7 | 3 | 5 | 28.8 | 22.54 | 0 | 5 | 4 | 29.7 | 23.58 | 3 | 7 | 3 | 0 | 6.25 | 3 | 5 | 8 | 2 | 5 | 26 | 9 | 6.8 | 0 | | | |
| 34 | 5 | 26.6 | 20.10 | 2 | 2 | 4 | 5 | 21.13 | 5 | 10.3 | 3 | 4 | 22.16 | 2.8 | 5 | 2 | 3 | 23.20 | 0 | 7 | 1 | 2 | 24.25 | 3 | 9 | 0 | 1 | 25 | 31 | 6 | 1 | | | | |
| 35 | 4 | 2 | 19.31 | 0 | 2 | 2 | 1 | 20.34 | 2 | 4 | 1 | 0 | 21.37 | 5 | 6 | 0 | 28.9 | 22.41 | 3.8 | 12.8 | 7.9 | 29.8 | 23.46 | 1 | 14.0 | 8.8 | 0 | 7 | 24 | 52 | 4 | 1 | | | |
| 36 | 2 | 25.8 | 18.50 | 29.7 | 2 | 1 | 26.7 | 19.53 | 0 | 4 | 5.9 | 27.6 | 20.56 | 3 | 11.6 | 6.8 | 5 | 22.1 | 6 | 8 | 7 | 4 | 23.5 | 4.9 | 0 | 6 | 3 | 24 | 11 | 2 | 2 | | | | |
| 37 | 0 | 4 | 18.9 | 5 | 3 | 4.9 | 3 | 19.11 | 0.7 | 5 | 7 | 2 | 20.15 | 0 | 6 | 6 | 1 | 21.19 | 3 | 9 | 5 | 0 | 22.23 | 6 | 1 | 4 | 29.8 | 23.29 | 0 | 15.3 | | | | | |
| 38 | 3.8 | 24.9 | 17.25 | 2 | 9.3 | 7 | 25.8 | 18.28 | 4 | 5 | 5 | 26.7 | 19.31 | 1.8 | 7 | 4 | 27.6 | 20.35 | 0 | 9 | 3 | 28.5 | 21.40 | 4 | 1 | 2 | 4 | 22 | 46 | 5.7 | 3 | | | | |
| 39 | 6 | 5 | 16.40 | 28.9 | 4 | 5 | 4 | 17.43 | 2 | 10.6 | 3 | 3 | 18.46 | 5 | 7 | 2 | 2 | 19.50 | 2.8 | 13.0 | 1 | 1 | 20.55 | 1 | 2 | 0 | 28.9 | 22 | 0 | 5 | 4 | | | | |
| 40 | 4 | 0 | 15.53 | 6 | 4 | 3 | 24.9 | 16.56 | 29.9 | 6 | 1 | 25.8 | 17.59 | 2 | 11.8 | 0 | 26.7 | 19.3 | 5 | 0 | 6.9 | 27.6 | 20.8 | 3.9 | 14.3 | 7.8 | 4 | 21 | 13 | 2 | 5 | | | | |
| 41 | 2 | 23.5 | 15.5 | 3 | 5 | 0 | 4 | 16.7 | 6 | 7 | 4.9 | 3 | 17.10 | 0.9 | 8 | 5.8 | 2 | 18.14 | 2 | 1 | 7 | 1 | 19.19 | 6 | 4 | 6 | 27.9 | 20.24 | 4.9 | 6 | | | | | |
| 42 | 2.9 | 0 | 14.15 | 27.9 | 9.5 | 3.8 | 23.9 | 15.17 | 3 | 7 | 7 | 24.8 | 16.20 | 6 | 9 | 6 | 25.6 | 17.23 | 1.9 | 2 | 5 | 26.5 | 18.28 | 3 | 4 | 4 | 4 | 19 | 34 | 6 | 15.6 | | | | |
| 43 | 7 | 22.5 | 13.22 | 5 | 6 | 6 | 4 | 14.24 | 28.9 | 10.8 | 5 | 2 | 15.27 | 3 | 9 | 4 | 1 | 16.30 | 6 | 13.3 | 3 | 0 | 17.35 | 0 | 5 | 1 | 26.9 | 18.40 | 3 | 7 | | | | | |
| 44 | 5 | 21.9 | 12.28 | 1 | 6 | 4 | 22.8 | 13.29 | 5 | 8 | 2 | 23.7 | 14.32 | 0 | 12.0 | 1 | 24.6 | 15.35 | 3 | 4 | 0 | 25.5 | 16.39 | 2.7 | 5 | 6.9 | 4 | 17 | 45 | 0 | 8 | | | | |
| 45 | 2 | 4 | 11.31 | 26.7 | 7 | 1 | 3 | 12.32 | 1 | 9 | 0 | 1 | 13.35 | 29.6 | 1 | 4.9 | 0 | 14.38 | 0 | 4 | 5.8 | 24.9 | 15.42 | 4 | 14.6 | 6 | 25.8 | 16.47 | 3.7 | 9 | | | | | |
| 46 | 0 | 20.8 | 10.32 | 3 | 9.7 | 2.9 | 21.7 | 11.33 | 27.7 | 9 | 3.8 | 22.6 | 12.35 | 2 | 2 | 7 | 23.4 | 13.37 | 0.6 | 5 | 6 | 3 | 14.41 | 0 | 7 | 4 | 2 | 15 | 46 | 4 | 16.0 | | | | |
| 47 | 1.8 | 2 | 9.31 | 25.8 | 8 | 7 | 1 | 10.31 | 3 | 11.0 | 6 | 0 | 11.32 | 28.8 | 3 | 4 | 22.8 | 12.34 | 2 | 13.5 | 3 | 23.7 | 13.38 | 1.6 | 8 | 2 | 24.6 | 14.42 | 0 | 1 | | | | | |
| 48 | 6 | 19.6 | 8.26 | 3 | 8 | 4 | 20.5 | 9.26 | 26.8 | 1 | 3 | 21.4 | 10.27 | 3 | 12.4 | 2 | 2 | 11 | 29 | 29.7 | 6 | 0 | 1 | 12.32 | 2 | 9 | 5.9 | 0 | 13 | 35 | 2.6 | 2 | | | |
| 49 | 3 | 0 | 7.19 | 24.8 | 9 | 1 | 19.9 | 8.18 | 3 | 2 | 0 | 20.7 | 9.19 | 27.8 | 5 | 3.9 | 21.6 | 10.20 | 2 | 7 | 4.7 | 22.5 | 11.22 | 0.7 | 15.0 | 6 | 23.3 | 12.25 | 2 | 3 | | | | | |
| 50 | 0 | 18.4 | 6.8 | 2 | 10.0 | 1.8 | 2 | 7 | 7.25.7 | 3 | 2.7 | 0 | 8.7 | 2 | 5 | 6 | 20.9 | 9.7 | 28.7 | 8 | 4 | 21.8 | 10.9 | 2 | 1 | 3 | 22.6 | 11.12 | 1.7 | 16.4 | | | | | |
| 51 | 0.7 | 17.7 | 4.55 | 23.6 | 0 | 5 | 18.5 | 5.52 | 1 | 4 | 4 | 19.4 | 6.51 | 26.6 | 6 | 2 | 2 | 7.51 | 1 | 14.0 | 1 | 1 | 8.52 | 29.6 | 3 | 0 | 21.9 | 9.54 | 2 | 5 | | | | | |
| 52 | 3 | 0 | 3.37 | 22.9 | 1 | 2 | 17.8 | 4.34 | 24.5 | 11.5 | 1 | 18.7 | 5.32 | 0 | 12.7 | 2.9 | 19.5 | 6.31 | 27.5 | 1 | 3.8 | 20.4 | 7.32 | 0 | 4 | 4.6 | 2 | 8.33 | 0.6 | 7 | | | | | |
| 53 | 0 | 16.2 | 2.16 | 2 | 2 | 0.8 | 0 | 3.12 | 23.8 | 5 | 1.8 | 17.9 | 4.9 | 25.3 | 8 | 6 | 18.7 | 5.7 | 26.8 | 2 | 4 | 19.6 | 6.7 | 28.4 | 15.5 | 3 | 20.4 | 7.7 | 0 | 8 | | | | | |
| 54 | 29.7 | 15.4 | 0.51 | 21.4 | 10.3 | 5 | 16.2 | 1.46 | 0 | 6 | 4 | 0 | 2.42 | 24.5 | 9 | 3 | 17.9 | 3.39 | 0 | 3 | 1 | 18.8 | 4.37 | 27.7 | 6 | 0 | 19.5 | 5.36 | 29.3 | 17.0 | | | | | |
| 55 | 3 | 14.6 | 29.21 | 20.5 | 4 | 2 | 15.4 | 0.15 | 22.1 | 7 | 0 | 16.2 | 1.10 | 23.6 | 13.1 | 1.9 | 0 | 2 | 6.25.2 | 4 | 2.7 | 17.9 | 3.3 | 26.9 | 7 | 3.6 | 18.7 | 4.1 | 28.5 | 1 | | | | | |
| 56 | 28.9 | 13.8 | 27.48 | 19.5 | 5 | 29.8 | 14.5 | 28.40 | 21.1 | 9 | 0.6 | 15.3 | 29.34 | 22.6 | 3 | 5 | 16.1 | 0.28 | 24.2 | 5 | 3 | 0 | 1 | 24.25.9 | 9 | 1 | 17.8 | 2.20 | 27.6 | 3 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 14 54 7 } m ARC 223° 31'.8 } 16° | | | | | | H. M. S. 14 58 7 } m 17° 224° 31'.9 } | | | | | | H. M. S. 15 2 8 } m 18° 225° 32'.1 } | | | | | | H. M. S. 15 6 10 } m 19° 226° 32'.5 } | | | | | | H. M. S. 15 10 12 } m 20° 227° 33'.1 } | | | | | | H. M. S. 15 14 16 } m 21° 228° 33'.9 } | | | | | |
|---|------|------|-------|------|------|---|------|-------|------|------|------|--|-------|------|------|------|------|---|------|------|------|------|-------|--|------|------|------|-------|--------|--|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | f | g | h | i | j | f | g | h | i | j | f | g | h | i | j | f | g | h | i | j | f | g | h | i | j | f | g | h | i | j | f | g | h | i | j |
| 22 | 11.9 | 6.3 | 3 1 | 9.8 | 15.6 | 12.8 | 7.2 | 4 6 | 11.0 | 16.7 | 13.7 | 8.1 | 5 11 | 12.3 | 17.9 | 14.6 | 9.1 | 6 17 | 13.5 | 19.0 | 15.5 | 10.0 | 7 24 | 14.7 | 20.2 | 16.5 | 11.0 | 8 32 | 16.0 | 21.3 | | | | | |
| 23 | 7 | 0 | 2 33 | 7 | 7 | 6 | 6.9 | 3 39 | 10.9 | 8 | 6 | 7.8 | 4 45 | 1 | 9 | 5 | 8.8 | 5 51 | 4 | 1 | 4 | 9.7 | 6 58 | 6 | 2 | 3 | 10.7 | 8 | 6 15.9 | 4 | | | | | |
| 24 | 6 | 5.6 | 2 5 | 6 | 7 | 5 | 6 | 3 11 | 8 | 8 | 4 | 5 | 4 17 | 0 | 18.0 | 3 | 5 | 5 24 | 3 | 1 | 2 | 4 | 6 31 | 5 | 3 | 2 | 4 | 7 39 | 8 | 4 | | | | | |
| 25 | 4 | 3 | 1 37 | 4 | 8 | 3 | 2 | 2 42 | 7 | 9 | 3 | 2 | 3 49 | 11.9 | 1 | 2 | 1 | 4 56 | 1 | 2 | 1 | 1 | 6 3 | 4 | 3 | 0 | 0 | 7 12 | 7 | 5 | | | | | |
| 26 | 11.3 | 0 | 1 7 | 9.3 | 15.8 | 2 | 5.9 | 2 13 | 5 | 9 | 1 | 6.8 | 3 20 | 8 | 1 | 0 | 7.8 | 4 27 | 0 | 3 | 14.9 | 8.7 | 5 35 | 14.3 | 20.4 | 15.9 | 9.7 | 6 43 | 6 | 6 | | | | | |
| 27 | 1 | 4.6 | 0 37 | 1 | 9 | 0 | 6 | 1 43 | 10.4 | 17.0 | 12.9 | 5 | 2 50 | 6 | 2 | 13.9 | 4 | 3 57 | 12.9 | 19.3 | 8 | 4 | 5 5 | 2 | 5 | 7 | 4 | 6 14 | 5 | 21.6 | | | | | |
| 28 | 0 | 3 | 0 6 | 0 | 9 | 11.9 | 2 | 1 12 | 2 | 1 | 8 | 1 | 2 19 | 5 | 2 | 7 | 1 | 3 27 | 8 | 4 | 6 | 0 | 4 35 | 1 | 6 | 5 | 0 | 5 44 | 15.4 | 7 | | | | | |
| 29 | 10.8 | 3.9 | 29 34 | 8.8 | 16.0 | 7 | 4.9 | 0 40 | 1 | 1 | 6 | 5.8 | 1 47 | 11.4 | 18.3 | 5 | 6.7 | 2 55 | 7 | 5 | 4 | 7.7 | 4 4 | 13.9 | 6 | 4 | 8.7 | 5 13 | 3 | 8 | | | | | |
| 30 | 6 | 6 | 29 0 | 7 | 0 | 5 | 5 | 0 7 | 0 | 2 | 4 | 4 | 1 14 | 2 | 4 | 4 | 4 | 2 23 | 5 | 5 | 3 | 3 | 3 31 | 8 | 20.7 | 2 | 3 | 4 41 | 1 | 9 | | | | | |
| 31 | 5 | 2 | 28 26 | 5 | 1 | 4 | 1 | 29 33 | 9.8 | 2 | 3 | 1 | 0 41 | 1 | 4 | 2 | 0 | 1 49 | 12.4 | 6 | 1 | 0 | 2 58 | 7 | 8 | 0 | 7.9 | 4 8 | 0 | 9 | | | | | |
| 32 | 3 | 2.8 | 27 51 | 3 | 1 | 2 | 3.8 | 28 58 | 6 | 17.3 | 1 | 4.7 | 0 6 | 10.9 | 5 | 0 | 5.6 | 1 14 | 2 | 19.7 | 13.9 | 6.6 | 2 23 | 6 | 9 | 14.8 | 5 | 3 34 | 14.9 | 22.0 | | | | | |
| 33 | 1 | 4 | 27 15 | 1 | 2 | 0 | 4 | 28 22 | 4 | 4 | 11.9 | 3 | 29 30 | 8 | 6 | 12.8 | 2 | 0 39 | 1 | 7 | 7 | 2 | 1 48 | 13.4 | 9 | 7 | 1 | 2 58 | 8 | 1 | | | | | |
| 34 | 9.9 | 0 | 26 37 | 7.9 | 16.3 | 10.8 | 0 | 27 44 | 3 | 5 | 7 | 3.9 | 28 52 | 6 | 18.6 | 6 | 4.8 | 0 1 | 11.9 | 8 | 6 | 5.8 | 1 11 | 3 | 21.0 | 5 | 6.7 | 2 21 | 6 | 2 | | | | | |
| 35 | 7 | 1.6 | 25 58 | 7 | 3 | 6 | 2.6 | 27 5 | 1 | 5 | 5 | 5 | 28 14 | 4 | 7 | 4 | 4 | 29 23 | 8 | 9 | 4 | 4 | 0 33 | 1 | 1 | 3 | 3 | 1 43 | 5 | 3 | | | | | |
| 36 | 5 | 2 | 25 18 | 5 | 4 | 4 | 1 | 26 25 | 8.9 | 6 | 3 | 1 | 27 34 | 2 | 7 | 2 | 0 | 28 42 | 6 | 20.0 | 2 | 4.9 | 29 53 | 12.9 | 2 | 1 | 5.9 | 1 4 | 14.3 | 4 | | | | | |
| 37 | 3 | 0.8 | 24 36 | 3 | 5 | 2 | 1.7 | 25 44 | 7 | 17.7 | 1 | 2.6 | 26 52 | 0 | 8 | 0 | 3.6 | 28 1 | 4 | 1 | 0 | 5 | 29 11 | 8 | 3 | 13.9 | 4 | 0 23 | 2 | 22.5 | | | | | |
| 38 | 1 | 3 | 23 52 | 1 | 6 | 0 | 2 | 25 0 | 4 | 8 | 10.9 | 2 | 26 8 | 9.8 | 9 | 11.8 | 1 | 27 17 | 2 | 2 | 12.8 | 0 | 28 28 | 6 | 4 | 7 | 0 | 29 40 | 0 | 6 | | | | | |
| 39 | 8.9 | 29.8 | 23 7 | 6.8 | 16.6 | 9.8 | 0.8 | 24 15 | 2 | 8 | 7 | 1.7 | 25 23 | 6 | 19.0 | 6 | 2.6 | 26 32 | 0 | 3 | 5 | 3.6 | 27 43 | 4 | 21.5 | 5 | 4.5 | 28 55 | 13.8 | 7 | | | | | |
| 40 | 7 | 4 | 22 20 | 6 | 7 | 6 | 3 | 23 28 | 0 | 9 | 5 | 2 | 24 36 | 4 | 1 | 4 | 1 | 25 46 | 10.8 | 4 | 3 | 1 | 26 56 | 2 | 6 | 2 | 0 | 28 8 | 6 | 8 | | | | | |
| 41 | 5 | 28.9 | 21 31 | 3 | 8 | 4 | 29.8 | 22 39 | 7.7 | 18.0 | 3 | 0.7 | 23 47 | 1 | 2 | 2 | 1.6 | 24 57 | 5 | 20.5 | 1 | 2.6 | 26 7 | 0 | 7 | 0 | 3.5 | 27 19 | 4 | 9 | | | | | |
| 42 | 3 | 4 | 20 40 | 0 | 9 | 2 | 3 | 21 47 | 5 | 1 | 1 | 2 | 22 56 | 8.9 | 3 | 0 | 1 | 24 6 | 3 | 6 | 11.9 | 0 | 25 16 | 11.8 | 8 | 12.8 | 0 | 26 28 | 2 | 23.0 | | | | | |
| 43 | 0 | 27.8 | 19 47 | 5.7 | 17.0 | 8.9 | 28.7 | 20 54 | 2 | 2 | 9.8 | 29.7 | 22 2 | 7 | 4 | 10.7 | 0.6 | 23 12 | 1 | 7 | 6 | 1.5 | 24 22 | 6 | 9 | 5 | 2.4 | 25 34 | 0 | 2 | | | | | |
| 44 | 7.8 | 3 | 18 51 | 4 | 1 | 7 | 2 | 19 58 | 6.9 | 3 | 6 | 1 | 21 6 | 4 | 19.5 | 5 | 0 | 22 16 | 9.9 | 8 | 4 | 0.9 | 23 26 | 3 | 22.1 | 3 | 1.8 | 24 38 | 12.8 | 3 | | | | | |
| 45 | 5 | 26.7 | 17 53 | 2 | 1 | 4 | 27.6 | 19 0 | 7 | 4 | 3 | 28.5 | 20 8 | 1 | 6 | 2 | 29.4 | 21 17 | 6 | 21.0 | 1 | 3 | 22 27 | 1 | 2 | 0 | 3 | 23 39 | 5 | 5 | | | | | |
| 46 | 2 | 1 | 16 51 | 4.9 | 2 | 1 | 0 | 17 58 | 4 | 18.5 | 0 | 27.9 | 19 6 | 7.8 | 7 | 9.9 | 28.8 | 20 15 | 3 | 1 | 10.9 | 29.7 | 21 25 | 10.8 | 4 | 11.7 | 0.7 | 22 36 | 3 | 23.6 | | | | | |
| 47 | 0 | 25.5 | 15 47 | 5 | 3 | 7.9 | 26.4 | 16 54 | 1 | 6 | 8.8 | 3 | 18 1 | 5 | 9 | 7 | 2 | 19 10 | 0 | 2 | 6 | 1 | 20 20 | 5 | 5 | 4 | 0 | 21 31 | 0 | 7 | | | | | |
| 48 | 6.8 | 24.9 | 14 40 | 1 | 17.5 | 6 | 25.8 | 15 46 | 5.7 | 7 | 5 | 26.7 | 16 53 | 1 | 20.0 | 4 | 27.6 | 18 1 | 8.7 | 3 | 3 | 28.5 | 19 11 | 2 | 22.6 | 1 | 29.4 | 20 22 | 11.7 | 8 | | | | | |
| 49 | 5 | 2 | 13 30 | 3.7 | 6 | 3 | 1 | 14 35 | 3 | 9 | 2 | 0 | 15 42 | 6.7 | 2 | 1 | 26.9 | 16 50 | 3 | 21.5 | 0 | 27.8 | 17 59 | 9.9 | 7 | 10.8 | 28.7 | 19 9 | 4 | 24.0 | | | | | |
| 50 | 2 | 23.5 | 12 16 | 2 | 7 | 0 | 24.4 | 13 20 | 4.8 | 19.0 | 7.9 | 25.3 | 14 26 | 3 | 3 | 8.8 | 2 | 15 34 | 7.9 | 6 | 9.7 | 1 | 16 42 | 5 | 9 | 5 | 0 | 17 52 | 1 | 2 | | | | | |
| 51 | 5.8 | 22.8 | 10 57 | 2.7 | 8 | 6.6 | 23.7 | 12 2 | 3 | 2 | 6 | 24.6 | 13 7 | 5.9 | 5 | 5 | 25.5 | 14 14 | 5 | 8 | 4 | 26.4 | 15 22 | 1 | 23.1 | 2 | 27.3 | 16 31 | 10.7 | 4 | | | | | |
| 52 | 5 | 0 | 9 35 | 2 | 18.0 | 3 | 22.9 | 10 39 | 3.8 | 4 | 3 | 23.8 | 11 43 | 4 | 7 | 1 | 24.7 | 12 49 | 0 | 22.0 | 0 | 25.6 | 13 56 | 8.7 | 3 | 9.9 | 26.5 | 15 5 | 3 | 6 | | | | | |
| 53 | 2 | 21.2 | 8 8 | 1.6 | 1 | 0 | 1 | 9 11 | 2 | 5 | 6.9 | 0 | 10 15 | 4.9 | 9 | 7.8 | 23.9 | 11 19 | 6.5 | 1 | 8.6 | 24.7 | 12 26 | 2 | 4 | 5 | 25.6 | 13 33 | 9.9 | 8 | | | | | |
| 54 | 4.8 | 20.4 | 6 37 | 0.9 | 3 | 5.7 | 21.3 | 7 38 | 2.6 | 7 | 5 | 22.1 | 8 41 | 3 | 21.0 | 4 | 0 | 9 44 | 5.9 | 3 | 2 | 23.8 | 10 50 | 7.7 | 6 | 1 | 24.7 | 11 56 | 4 | 25.0 | | | | | |
| 55 | 4 | 19.5 | 5 0 | 2 | 4 | 3 | 20.4 | 6 0 | 1.9 | 8 | 1 | 21.2 | 7 1 | 3.6 | 1 | 0 | 22.1 | 8 4 | 3 | 5 | 7.8 | 22.9 | 9 8 | 1 | 8 | 8.7 | 23.8 | 10 13 | 8.9 | 2 | | | | | |
| 56 | 0 | 18.6 | 3 18 | 29.3 | 6 | 4.9 | 19.4 | 4 17 | 1 | 20.0 | 5.6 | 20.2 | 5 16 | 2.8 | 3 | 6 | 21.1 | 6 17 | 4.6 | 7 | 4 | 21.9 | 7 20 | 6.4 | 24.0 | 2 | 22.8 | 8 24 | 3 | 4 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 15 14 16 } \cap ARC 228° 33'.9 } 21° | | | | | | H. M. S. 15 18 19 } \cap 22° 229° 34'.8 } | | | | | | H. M. S. 15 22 24 } \cap 23° 230° 36'.0 } | | | | | | H. M. S. 15 26 29 } \cap 24° 231° 37'.3 } | | | | | | H. M. S. 15 30 35 } \cap 25° 232° 38'.8 } | | | | | | H. M. S. 15 34 42 } \cap 26° 233° 40'.5 } | | | | | |
|---|------------|--------------|----------|----------|----------|---|--------------|----------|----------|----------|------------|---|----------|----------|----------|------------|--------------|---|----------|----------|------------|--------------|----------|---|----------|------------|--------------|----------|----------|---|---|--|--|--|--|
| II. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | \uparrow | \downarrow | ∞ | \times | γ | \uparrow | \downarrow | ∞ | \times | γ | \uparrow | \downarrow | ∞ | \times | γ | \uparrow | \downarrow | ∞ | \times | γ | \uparrow | \downarrow | ∞ | \times | γ | \uparrow | \downarrow | ∞ | \times | γ | | | | | |
| 22 | 16.5 | 11.0 | 8 32 | 16.0 | 21.3 | 17.4 | 12.0 | 9 40 | 17.2 | 22.5 | 18.3 | 12.9 | 10 49 | 18.4 | 23.6 | 19.3 | 13.9 | 11 59 | 19.7 | 24.7 | 20.2 | 14.9 | 13 9 | 20.9 | 25.9 | 21.1 | 15.9 | 14 19 | 22.2 | 27.0 | | | | | |
| 23 | 3 | 10.7 | 8 6 | 15.9 | 4 | 3 | 11.6 | 9 15 | 1 | 5 | 2 | 6 | 10 24 | 4 | 7 | 1 | 6 | 11 33 | 6 | 8 | 0 | 6 | 12 44 | 9 | 26.0 | 0 | 6 | 13 55 | 2 | 1 | | | | | |
| 24 | 2 | 4 | 7 39 | 8 | 4 | 1 | 3 | 8 48 | 0 | 6 | 0 | 3 | 9 58 | 3 | 7 | 0 | 3 | 11 8 | 6 | 9 | 19.9 | 3 | 12 18 | 8 | 0 | 20.8 | 2 | 13 30 | 1 | 2 | | | | | |
| 25 | 0 | 0 | 7 12 | 7 | 5 | 16.9 | 0 | 8 21 | 16.9 | 7 | 17.9 | 0 | 9 31 | 2 | 8 | 18.8 | 12.9 | 10 41 | 5 | 25.0 | 7 | 13.9 | 11 52 | 8 | 1 | 7 | 14.9 | 13 4 | 1 | 3 | | | | | |
| 26 | 15.9 | 9.7 | 6 43 | 6 | 6 | 8 | 10.7 | 7 53 | 8 | 22.7 | 7 | 11.6 | 9 3 | 1 | 9 | 6 | 6 | 10 13 | 4 | 0 | 6 | 6 | 11 25 | 7 | 2 | 5 | 6 | 12 37 | 0 | 27.4 | | | | | |
| 27 | 7 | 4 | 6 14 | 5 | 21.6 | 6 | 3 | 7 24 | 7 | 8 | 5 | 3 | 8 34 | 0 | 24.0 | 5 | 3 | 9 45 | 19.3 | 1 | 4 | 2 | 10 57 | 20.6 | 26.3 | 3 | 2 | 12 10 | 21.9 | 5 | | | | | |
| 28 | 5 | 0 | 5 44 | 15.4 | 7 | 5 | 0 | 6 54 | 6 | 9 | 4 | 10.9 | 8 5 | 17.9 | 0 | 3 | 11.9 | 9 16 | 2 | 2 | 2 | 12.9 | 10 28 | 6 | 4 | 2 | 13.9 | 11 41 | 9 | 5 | | | | | |
| 29 | 4 | 8.7 | 5 13 | 3 | 8 | 3 | 9.6 | 6 23 | 5 | 23.0 | 2 | 6 | 7 34 | 9 | 1 | 1 | 6 | 8 46 | 2 | 25.3 | 1 | 5 | 9 58 | 5 | 5 | 0 | 5 | 11 12 | 8 | 6 | | | | | |
| 30 | 2 | 3 | 4 41 | 1 | 9 | 1 | 2 | 5 51 | 16.4 | 0 | 0 | 2 | 7 3 | 8 | 2 | 0 | 2 | 8 15 | 1 | 4 | 18.9 | 2 | 9 28 | 4 | 6 | 19.8 | 2 | 10 41 | 8 | 27.7 | | | | | |
| 31 | 0 | 7.9 | 4 8 | 0 | 9 | 15.9 | 8.9 | 5 19 | 3 | 1 | 16.9 | 9.8 | 6 30 | 7 | 24.3 | 17.8 | 10.8 | 7 42 | 0 | 5 | 7 | 11.8 | 8 56 | 3 | 26.7 | 6 | 12.8 | 10 10 | 7 | 8 | | | | | |
| 32 | 14.8 | 5 | 3 34 | 14.9 | 22.0 | 8 | 5 | 4 45 | 2 | 2 | 7 | 5 | 5 56 | 6 | 4 | 6 | 4 | 7 9 | 18.9 | 6 | 5 | 4 | 8 23 | 20.3 | 8 | 5 | 4 | 9 37 | 21.6 | 9 | | | | | |
| 33 | 7 | 1 | 2 58 | 8 | 1 | 6 | 1 | 4 9 | 1 | 23.3 | 5 | 1 | 5 21 | 17.5 | 5 | 4 | 0 | 6 35 | 8 | 25.7 | 3 | 0 | 7 49 | 2 | 9 | 3 | 0 | 9 3 | 5 | 28.0 | | | | | |
| 34 | 5 | 6.7 | 2 21 | 6 | 2 | 4 | 7.7 | 3 33 | 0 | 4 | 3 | 8.7 | 4 45 | 3 | 6 | 2 | 9.6 | 5 59 | 7 | 8 | 2 | 10.6 | 7 13 | 1 | 27.0 | 1 | 11.6 | 8 28 | 5 | 2 | | | | | |
| 35 | 3 | 3 | 1 43 | 5 | 3 | 2 | 3 | 2 55 | 15.8 | 5 | 1 | 2 | 4 8 | 2 | 24.7 | 0 | 2 | 5 21 | 6 | 9 | 0 | 2 | 6 36 | 0 | 1 | 18.9 | 2 | 7 52 | 4 | 3 | | | | | |
| 36 | 1 | 5.9 | 1 4 | 14.3 | 4 | 0 | 6.8 | 2 16 | 7 | 6 | 15.9 | 7.8 | 3 29 | 1 | 8 | 16.8 | 8.8 | 4 43 | 5 | 26.0 | 17.8 | 9.8 | 5 57 | 19.9 | 2 | 7 | 10.8 | 7 14 | 21.3 | 4 | | | | | |
| 37 | 13.9 | 4 | 0 23 | 2 | 22.5 | 14.8 | 4 | 1 35 | 6 | 23.7 | 7 | 4 | 2 48 | 0 | 9 | 6 | 3 | 4 2 | 18.4 | 1 | 6 | 3 | 5 17 | 8 | 3 | 5 | 3 | 6 34 | 2 | 28.5 | | | | | |
| 38 | 7 | 0 | 29 40 | 0 | 6 | 6 | 5.9 | 0 52 | 4 | 8 | 5 | 6.9 | 2 5 | 16.8 | 25.0 | 4 | 7.8 | 3 20 | 2 | 2 | 3 | 8.8 | 4 35 | 7 | 27.4 | 3 | 9.8 | 5 52 | 1 | 6 | | | | | |
| 39 | 5 | 4.5 | 28 55 | 13.8 | 7 | 4 | 4 | 0 7 | 2 | 9 | 3 | 4 | 1 21 | 7 | 1 | 2 | 4 | 2 35 | 1 | 3 | 1 | 4 | 3 51 | 6 | 5 | 0 | 4 | 5 8 | 0 | 8 | | | | | |
| 40 | 2 | 0 | 28 8 | 6 | 8 | 1 | 0 | 29 20 | 1 | 24.0 | 0 | 5.9 | 0 34 | 5 | 2 | 0 | 6.9 | 1 49 | 0 | 26.5 | 16.9 | 7.9 | 3 5 | 19.4 | 7 | 17.8 | 8.9 | 4 22 | 20.9 | 9 | | | | | |
| 41 | 0 | 3.5 | 27 19 | 4 | 9 | 13.9 | 4.5 | 28 31 | 14.9 | 1 | 14.8 | 4 | 29 45 | 3 | 4 | 15.7 | 4 | 1 0 | 17.8 | 6 | 6 | 4 | 2 17 | 3 | 8 | 6 | 3 | 3 34 | 8 | 29.0 | | | | | |
| 42 | 12.8 | 0 | 26 28 | 2 | 23.0 | 7 | 3.9 | 27 40 | 7 | 3 | 6 | 4.9 | 28 54 | 2 | 25.5 | 5 | 5.9 | 0 10 | 7 | 7 | 4 | 6.8 | 1 26 | 1 | 28.0 | 3 | 7.8 | 2 43 | 6 | 2 | | | | | |
| 43 | 5 | 2.4 | 25 34 | 0 | 2 | 4 | 4 | 26 47 | 5 | 4 | 3 | 3 | 28 1 | 0 | 7 | 3 | 3 | 29 16 | 5 | 9 | 1 | 3 | 0 33 | 0 | 1 | 0 | 3 | 1 51 | 5 | 3 | | | | | |
| 44 | 3 | 1.8 | 24 38 | 12.8 | 3 | 2 | 2.8 | 25 51 | 3 | 24.6 | 1 | 3.8 | 27 5 | 15.8 | 8 | 0 | 4.7 | 28 20 | 3 | 27.0 | 15.9 | 5.7 | 29 37 | 18.8 | 3 | 16.8 | 6.7 | 0 55 | 20.4 | 5 | | | | | |
| 45 | 0 | 3 | 23 39 | 5 | 5 | 12.9 | 2 | 24 52 | 0 | 7 | 13.8 | 2 | 26 6 | 6 | 9 | 14.7 | 1 | 27 21 | 1 | 2 | 6 | 1 | 28 38 | 6 | 4 | 5 | 1 | 29 56 | 2 | 6 | | | | | |
| 46 | 11.7 | 0.7 | 22 36 | 3 | 23.6 | 6 | 1.6 | 23 49 | 13.8 | 8 | 5 | 2.6 | 25 3 | 3 | 3 | 26.0 | 4 | 3.5 | 26 19 | 16.9 | 3 | 3 | 4.5 | 27 35 | 5 | 28.5 | 2 | 5.5 | 28 54 | 1 | 8 | | | | |
| 47 | 4 | 0 | 21 31 | 0 | 7 | 3 | 0 | 22 44 | 6 | 9 | 2 | 1.9 | 23 58 | 1 | 2 | 1 | 2.9 | 25 13 | 7 | 4 | 0 | 3.8 | 26 30 | 3 | 7 | 15.9 | 4.8 | 27 48 | 19.9 | 8 | | | | | |
| 48 | 1 | 29.4 | 20 22 | 11.7 | 8 | 0 | 0.3 | 21 35 | 3 | 25.1 | 12.9 | 3 | 22 48 | 14.8 | 4 | 13.8 | 2 | 24 3 | 5 | 5 | 14.7 | 2 | 25 20 | 1 | 9 | 6 | 1 | 26 38 | 7 | 0.2 | | | | | |
| 49 | 10.8 | 28.7 | 19 9 | 4 | 24.0 | 11.7 | 29.6 | 20 21 | 1 | 2 | 6 | 0.6 | 21 35 | 6 | 6 | 5 | 1.5 | 22 50 | 3 | 7 | 4 | 2.5 | 24 6 | 17.9 | 29.1 | 3 | 3.4 | 25 24 | 6 | 3 | | | | | |
| 50 | 5 | 0 | 17 52 | 1 | 2 | 4 | 28.9 | 19 4 | 12.8 | 4 | 3 | 29.8 | 20 17 | 4 | 7 | 2 | 0.8 | 21 31 | 1 | 28.0 | 1 | 1.7 | 22 47 | 8 | 3 | 0 | 2.7 | 24 5 | 5 | 5 | | | | | |
| 51 | 2 | 27.3 | 16 31 | 10.7 | 4 | 0 | 2 | 17 42 | 5 | 6 | 11.9 | 1 | 18 54 | 1 | 9 | 12.8 | 0 | 20 8 | 15.8 | 2 | 13.8 | 0 | 21 24 | 6 | 5 | 14.7 | 1.9 | 22 41 | 3 | 8 | | | | | |
| 52 | 9.9 | 26.5 | 15 5 | 3 | 6 | 10.7 | 27.4 | 16 15 | 1 | 8 | 6 | 28.3 | 17 27 | 13.8 | 27.1 | 5 | 29.2 | 18 40 | 5 | 4 | 4 | 0.2 | 19 55 | 3 | 7 | 3 | 1 | 21 11 | 1 | 1.0 | | | | | |
| 53 | 5 | 25.6 | 13 33 | 9.9 | 8 | 4 | 26.5 | 14 43 | 11.7 | 26.1 | 2 | 27.4 | 15 53 | 4 | 3 | 1 | 28.4 | 17 6 | 2 | 7 | 0 | 29.3 | 18 20 | 0 | 9 | 13.9 | 0.2 | 19 36 | 18.8 | 2 | | | | | |
| 54 | 1 | 24.7 | 11 56 | 4 | 25.0 | 0 | 25.6 | 13 4 | 2 | 3 | 10.8 | 26.5 | 14 14 | 0 | 6 | 11.7 | 27.5 | 15 26 | 14.8 | 9 | 12.6 | 28.4 | 16 39 | 16.7 | 8 | 0.2 | 5 | 29.3 | 17 54 | 5 | 5 | | | | |
| 55 | 8.7 | 23.8 | 10 13 | 8.9 | 2 | 9.6 | 24.6 | 11 20 | 10.7 | 5 | 4 | 25.5 | 12 29 | 12.5 | 8 | 3 | 26.4 | 13 39 | 4 | 29.2 | 2 | 27.3 | 14 51 | 3 | 5 | 1 | 28.3 | 16 4 | 2 | 8 | | | | | |
| 56 | 2 | 22.8 | 8 24 | 3 | 4 | 1 | 23.6 | 9 29 | 1 | 7 | 0 | 24.4 | 10 36 | 0 | 28.1 | 10.8 | 25.3 | 11 45 | 13.9 | 4 | 11.7 | 26.3 | 12 55 | 15.9 | 8 | 12.6 | 27.2 | 14 7 | 17.9 | 2.1 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 15 38 49 } \cap ARC 234° 42' 3 } 27° | | | | | | H. M. S. 15 42 57 } \cap 28° | | | | | | H. M. S. 15 47 6 } \cap 29° | | | | | | H. M. S. 15 51 16 } ∇ 0° | | | | | | H. M. S. 15 55 26 } ∇ 1° | | | | | | H. M. S. 15 59 37 } ∇ 2° | | | | | |
|---|--------|----------|----------|----------|--------|-----------------------------------|----------|----------|----------|--------|---------|----------------------------------|----------|----------|---------|--------|----------|------------------------------------|----------|--------|--------|----------|----------|------------------------------------|--------|--------|----------|----------|----------|------------------------------------|--------|----------|----------|----------|--------|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 |
| Lat. | \cap | ∇ | ∞ | \times | \cap | \cap | ∇ | ∞ | \times | \cap | \cap | ∇ | ∞ | \times | \cap | \cap | ∇ | ∞ | \times | \cap | \cap | ∇ | ∞ | \times | \cap | \cap | ∇ | ∞ | \times | \cap | \cap | ∇ | ∞ | \times | \cap |
| 22 | 22.1 | 16.9 | 15 30 | 23.5 | 28.2 | 23.0 | 17.9 | 16 42 | 24.8 | 29.3 | 24.0 | 18.9 | 17 55 | 26.0 | 0.5 | 24.9 | 19.9 | 19 8 | 27.3 | 1.6 | 25.9 | 20.9 | 20 22 | 28.6 | 2.8 | 26.8 | 22.0 | 21 36 | 29.9 | 3.9 | | | | | |
| 23 | 21.9 | 6 15 | 6 4 | 3 | 22.9 | 6 16 | 19 7 | 4 | 23.8 | 6 17 | 32 0 | 6 | 8 | 6 18 | 45 3 | 7 | 7 | 6 19 | 59 6 | 9 | 7 | 21.7 | 21 15 | 9 | 4.0 | | | | | | | | | | |
| 24 | 8 | 2 14 | 42 4 | 3 | 7 | 2 15 | 54 7 | 5 | 6 | 3 17 | 8 0 | 7 | 6 | 3 18 | 22 3 | 8 | 6 | 3 19 | 37 6 | 3.0 | 5 | 4 20 | 52 9 | 1 | | | | | | | | | | | |
| 25 | 6 15.9 | 14 16 | 3 | 4 | 5 16.9 | 15 29 | 7 | 6 | 5 17.9 | 16 43 | 25.9 | 8 | 5 18.9 | 17 58 | 3 | 9 | 4 | 0 19 | 13 6 | 1 | 3 | 1 20 | 29 9 | 2 | | | | | | | | | | | |
| 26 | 4 | 6 13 | 50 23.3 | 5 | 4 | 6 15 | 4 6 | 29.7 | 3 | 6 16 | 18 9 | 9 | 24.3 | 6 17 | 33 2 | 2.0 | 2 | 19.7 | 18 49 | 6 | 2 | 2 20 | 8 20 | 5 | 9 | 3 | | | | | | | | | |
| 27 | 3 | 2 13 | 23 2 | 28.6 | 2 | 2 14 | 37 24.6 | 8 | 2 | 3 15 | 52 9 | 1.0 | 1 | 3 17 | 7 27.2 | 1 | 1 | 4 18 | 24 28.5 | 3 | 0 | 5 19 | 41 29.9 | 4 | | | | | | | | | | | |
| 28 | 1 14.9 | 12 55 | 2 | 7 | 0 15.9 | 14 9 | 5 | 9 | 0 16.9 | 15 25 | 8 | 1 | 0 17.9 | 16 41 | 2 | 2 | 24.9 | 0 17 | 58 5 | 4 | 25.8 | 1 19 | 15 9 | 4.5 | | | | | | | | | | | |
| 29 | 20.9 | 5 12 | 26 1 | 8 | 21.9 | 5 13 | 41 5 | 8 | 22.8 | 6 14 | 57 8 | 2 | 23.8 | 6 16 | 13 2 | 3 | 7 | 18.6 | 17 31 | 5 | 3.5 | 7 19.7 | 18 49 | 9 | 7 | | | | | | | | | | |
| 30 | 8 | 2 11 | 56 23.1 | 9 | 7 | 2 13 | 11 4 | 0.1 | 6 | 2 14 | 28 25.8 | 3 | 6 | 2 15 | 45 1 | 4 | 5 | 2 17 | 3 5 | 6 | 5 | 3 18 | 21 9 | 8 | | | | | | | | | | | |
| 31 | 6 13.8 | 11 25 | 0 29.0 | | 5 14.8 | 12 41 | 24.4 | 2 | 5 15.8 | 13 57 | 7 | 4 | 4 16.8 | 15 15 | 1 | 2.5 | 4 17.8 | 16 34 | 5 | 7 | 3 18.9 | 17 53 | 9 | 9 | | | | | | | | | | | |
| 32 | 4 | 4 10 | 52 0 | 1 | 3 | 4 12 | 9 3 | 3 | 3 | 4 13 | 26 7 | 1.5 | 2 | 5 14 | 44 27.1 | 6 | 2 | 4 16 | 3 28.5 | 8 | 1 | 5 17 | 23 29.9 | 5.0 | | | | | | | | | | | |
| 33 | 2 | 0 10 | 19 22.9 | 2 | 1 | 0 11 | 36 3 | 4 | 1 | 0 12 | 54 7 | 6 | 0 | 1 14 | 12 1 | 8 | 0 | 0 15 | 32 5 | 4.0 | 24.9 | 1 16 | 52 9 | 2 | | | | | | | | | | | |
| 34 | 0 12.6 | 9 44 | 9 | 3 | 0 13.6 | 11 1 | 2 | 0.5 | 21.9 | 14.6 | 12 20 | 25.6 | 7 | 22.8 | 15.6 | 13 39 | 0 | 9 | 23.8 | 16.6 | 14 59 | 5 | 1 | 7 17.7 | 16 20 | 9 | 3 | | | | | | | | |
| 35 | 19.8 | 2 9 | 8 8 | 29.5 | 20.8 | 2 10 | 26 24.2 | 6 | 7 | 2 11 | 44 6 | 8 | 6 | 2 13 | 4 0 | 3.0 | 6 | 2 14 | 24 4 | 2 | 5 | 3 15 | 46 9 | 4 | | | | | | | | | | | |
| 36 | 6 11.8 | 8 30 | 7 | 6 | 6 12.8 | 9 48 | 1 | 8 | 5 13.8 | 11 7 | 5 | 9 | 4 14.8 | 12 27 | 0 | 1 | 4 15.8 | 13 48 | 4 | 3 | 3 16.9 | 15 11 | 9 | 5.5 | | | | | | | | | | | |
| 37 | 4 | 3 7 | 51 22.6 | 7 | 3 | 3 9 | 9 1 | 9 | 3 | 3 10 | 28 5 | 2.0 | 2 | 3 11 | 49 26.9 | 3 | 2 | 4 13 | 11 28.4 | 4.4 | 1 | 4 14 | 33 29.9 | 6 | | | | | | | | | | | |
| 38 | 2 10.8 | 7 10 | 6 | 8 | 1 11.8 | 8 28 | 0 | 1.0 | 1 12.8 | 9 48 | 25.4 | 1 | 0 13.9 | 11 9 | 9 | 4 | 0 14.9 | 12 31 | 4 | 6 | 23.9 | 15.9 | 13 55 | 9 | 8 | | | | | | | | | | |
| 39 | 0 | 4 6 | 26 5 | 8 | 19.9 | 4 7 | 45 23.9 | 2 | 20.8 | 4 9 | 5 4 | 3 | 21.8 | 4 10 | 27 9 | 3.6 | 22.7 | 4 11 | 50 4 | 7 | 7 | 5 13 | 14 9 | 9 | | | | | | | | | | | |
| 40 | 18.7 | 9.9 | 5 41 | 4 | 0.1 | 7 10.9 | 7 0 | 9 | 3 | 6 11.9 | 8 21 | 3 | 5 | 5 12.9 | 9 43 | 8 | 7 | 5 13.9 | 11 6 | 3 | 9 | 4 | 0 12 | 31 9 | 6.1 | | | | | | | | | | |
| 41 | 5 | 3 4 | 53 22.3 | 3 | 4 | 3 6 | 13 8 | 5 | 4 | 4 7 | 34 3 | 6 | 3 | 4 8 | 57 8 | 9 | 2 | 4 10 | 20 28.3 | 5.1 | 2 | 14.4 | 11 45 | 9 | 3 | | | | | | | | | | |
| 42 | 2 | 8.8 | 4 3 | 2 | 4 | 2 9.8 | 5 23 | 7 | 1.7 | 1 10.8 | 6 45 | 25.2 | 8 | 1 11.8 | 8 8 | 26.8 | 4.0 | 0 12.8 | 9 32 | 3 | 2 | 22.9 | 13.9 | 10 58 | 29.9 | 4 | | | | | | | | | |
| 43 | 0 | 3 3 | 10 1 | 6 | 18.9 | 3 4 | 31 23.6 | 8 | 19.8 | 2 5 | 53 2 | 3.0 | 20.8 | 3 7 | 16 7 | 2 | 21.7 | 2 8 | 41 3 | 4 | 6 | 3 10 | 6 8 | 6 | | | | | | | | | | | |
| 44 | 17.7 | 7.7 | 2 14 | 21.9 | 7 | 6 8.7 | 3 35 | 5 | 9 | 6 9.7 | 4 58 | 1 | 2 | 5 10.7 | 6 21 | 7 | 4 | 4 11.6 | 7 47 | 2 | 6 | 4 12.7 | 9 14 | 8 | 8 | | | | | | | | | | |
| 45 | 4 | 1 1 | 16 8 | 8 | 4 | 1 2 | 37 4 | 2.1 | 3 | 1 3 | 59 0 | 4 | 3 | 1 5 | 23 6 | 6 | 1 | 0 6 | 49 28.2 | 8 | 1 | 1 8 | 17 8 | 7.0 | | | | | | | | | | | |
| 46 | 1 | 6.5 | 0 13 | 7 | 1.0 | 1 7.4 | 1 35 | 3 | 3 | 0 8.4 | 2 57 | 24.9 | 6 | 0 9.4 | 4 22 | 6 | 8 | 20.9 | 10.4 | 5 48 | 2 | 6.0 | 21.8 | 11.5 | 7 16 | 8 | 2 | | | | | | | | |
| 47 | 16.8 | 5.8 | 29 7 | 6 | 2 | 17.8 | 6.8 | 0 29 | 23.2 | 5 | 18.7 | 7.8 | 1 52 | 9 | 7 | 19.7 | 8.8 | 3 17 | 26.5 | 5.0 | 6 | 9.7 | 4 43 | 2 | 2 | 5 10.8 | 6 12 | 29.8 | 4 | | | | | | |
| 48 | 5 | 1 27 | 58 21.4 | 4 | 5 | 1 29 | 19 1 | 7 | 4 | 1 0 | 42 8 | 9 | 3 | 1 2 | 7 5 | 2 | 3 | 0 3 | 34 1 | 4 | 2 | 1 5 | 3 8 | 6 | | | | | | | | | | | |
| 49 | 2 | 4.4 | 26 43 | 3 | 6 | 2 5.4 | 28 5 | 0 | 9 | 1 6.4 | 29 28 | 7 | 4.1 | 0 7.4 | 0 53 | 4 | 4 | 19.9 | 8.3 | 2 20 | 28.1 | 6 | 20.9 | 9.4 | 3 49 | 8 | 8 | | | | | | | | |
| 50 | 15.9 | 3.7 | 25 24 | 2 | 8 | 16.8 | 4.7 | 26 46 | 22.9 | 3.1 | 17.7 | 5.6 | 28 9 | 6 | 4 | 18.7 | 6.6 | 29 34 | 4 | 6 | 6 7.6 | 1 0 | 1 | 9 | 5 8.7 | 2 29 | 8 | 8.1 | | | | | | | |
| 51 | 5 | 2.9 | 24 0 | 0 | 2.1 | 5 3.9 | 25 21 | 8 | 3 | 4 4.8 | 26 44 | 24.5 | 6 | 3 | 5.8 | 28 8 | 26.3 | 9 | 2 | 6.8 | 29 35 | 0 | 7.2 | 2 7.9 | 1 4 | 8 | 4 | | | | | | | | |
| 52 | 2 | 1 22 | 30 20.8 | 3 | 1 | 1 23 | 50 7 | 6 | 0 | 0 25 | 13 4 | 8 | 17.9 | 0 26 | 37 2 | 6.1 | 18.8 | 0 28 | 4 0 | 5 | 19.8 | 0 29 | 33 29.8 | 7 | | | | | | | | | | | |
| 53 | 14.8 | 1.2 | 20 53 | 6 | 5 | 15.7 | 2.2 | 22 13 | 5 | 8 | 16.6 | 3.1 | 23 35 | 3 | 5.1 | 5 4.1 | 24 59 | 1 | 4 | 4 | 5.1 | 26 25 | 27.9 | 8 | 4 | 6.1 | 27 54 | 8 | 9.0 | | | | | | |
| 54 | 4 | 0.2 | 19 10 | 4 | 8 | 3 1.2 | 20 29 | 3 | 4.1 | 2 2.2 | 21 51 | 2 | 4 | 1 3.1 | 23 14 | 0 | 7 | 0 4.1 | 24 39 | 9 | 8.1 | 18.9 | 5.1 | 26 7 | 8 | 3 | | | | | | | | | |
| 55 | 0 29.2 | 17 20 | 1 | 3.1 | 14.9 | 0.1 | 18 38 | 1 | 4 | 15.8 | 1.1 | 19 58 | 0 | 7 | 16.7 | 2.1 | 21 20 | 25.9 | 7.0 | 17.6 | 3.1 | 22 44 | 9 | 3 | 5 4.1 | 24 11 | 8 | 6 | | | | | | | |
| 56 | 13.5 | 28.2 | 15 22 | 19.8 | 4 | 4 29.0 | 16 38 | 21.9 | 7 | 3 | 0.0 | 17 56 | 23.8 | 6.0 | 2 | 1.0 | 19 17 | 8 | 4 | 1 | 2.0 | 20 40 | 8 | 7 | 0 3.0 | 22 6 | 8 | 9 | | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 15 59 37 } \uparrow ARC 239° 54'.2 } 2° | | | | | | H. M. S. 16 3 48 } \uparrow 3° 240° 57'.1 } \uparrow 3° | | | | | | H. M. S. 16 8 0 } \uparrow 4° 242° 0'.1 } \uparrow 4° | | | | | | H. M. S. 16 12 13 } \uparrow 5° 243° 3'.3 } \uparrow 5° | | | | | | H. M. S. 16 16 27 } \uparrow 6° 244° 6'.7 } \uparrow 6° | | | | | | H. M. S. 16 20 41 } \uparrow 7° 245° 10'.2 } \uparrow 7° | | | | | |
|--|------------|------------|------------------|------------|------------|---|------------|------------|------------|------------|------------|---|------------|------------|------------|------------|------------|---|------------|------------|-----------------|------------|------------------|---|------------|-----------------|------------|------------|------------|--|------------|------------|------------|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | \uparrow | | |
| 22 | 26.8 | 22.0 | 21 36 | 29.9 | 3.9 | 27.8 | 23.0 | 22 51 | 1.2 | 5.1 | 28.8 | 24.0 | 24 7 | 2.5 | 6.2 | 29.7 | 25.1 | 25 24 | 3.7 | 7.3 | 0.7 | 26.2 | 26 41 | 5.0 | 8.5 | 1.7 | 27.2 | 27 59 | 6.3 | 9.6 | | | | | |
| 23 | 7 | 21.7 | 21 15 | 9 | 4.0 | 6 | 22.7 | 22 30 | 2 | 2 | 6 | 23.7 | 23 47 | 5 | 3 | 6 | 24.8 | 25 4 | 8 | 4 | 5 | 25.8 | 26 22 | 1 | 6 | 5 | 26.9 | 27 40 | 4 | 7 | | | | | |
| 24 | 5 | 4 | 20 52 | 9 | 1 | 5 | 4 | 22 8 | 2 | 3 | 4 | 4 | 23 25 | 5 | 4 | 4 | 5 | 24 43 | 8 | 5 | 4 | 5 | 26 2 | 1 | 7 | 3 | 6 | 27 21 | 4 | 8 | | | | | |
| 25 | 3 | 1 | 20 29 | 9 | 2 | 3 | 1 | 21 46 | 2 | 4 | 3 | 1 | 23 3 | 5 | 5 | 2 | 1 | 24 22 | 8 | 6 | 2 | 2 | 25 41 | 1 | 8 | 2 | 3 | 27 0 | 5 | 9 | | | | | |
| 26 | 2 | 20.8 | 20 5 | 9 | 3 | 1 | 21.8 | 21 23 | 2 | 5 | 1 | 22.8 | 22 41 | 5 | 6.6 | 1 | 23.8 | 24 0 | 3.8 | 8 | 0 | 24.9 | 25 19 | 2 | 9 | 0 | 0 | 26 40 | 6.5 | 10.1 | | | | | |
| 27 | 0 | 5 | 19 41 | 29.9 | 4 | 0 | 5 | 20 59 | 1.2 | 5.6 | 27.9 | 4 | 22 17 | 2.5 | 7 | 28.9 | 5 | 23 37 | 9 | 9 | \uparrow 29.9 | 6 | 24 57 | 5.2 | 9.0 | 0.8 | 25.6 | 26 18 | 6 | 2 | | | | | |
| 28 | 25.8 | 1 | 19 15 | 9 | 4.5 | 26.8 | 1 | 20 34 | 2 | 7 | 8 | 1 | 21 53 | 6 | 9 | 7 | 1 | 23 13 | 9 | 8.0 | 7 | 2 | 24 34 | 2 | 2 | 7 | 3 | 25 56 | 6 | 3 | | | | | |
| 29 | 7 | 19.7 | 18 49 | 9 | 7 | 6 | 20.7 | 20 8 | 2 | 8 | 6 | 21.7 | 21 28 | 6 | 7.0 | 6 | 22.8 | 22 48 | 9 | 1 | 5 | 23.9 | 24 10 | 3 | 3 | 5 | 0 | 25 32 | 7 | 4 | | | | | |
| 30 | 5 | 3 | 18 21 | 9 | 8 | 4 | 3 | 19 41 | 2 | 9 | 4 | 4 | 21 2 | 6 | 1 | 4 | 4 | 22 23 | 4.0 | 3 | 3 | 5 | 23 45 | 3 | 4 | 3 | 24.6 | 25 8 | 6.7 | 10.6 | | | | | |
| 31 | 3 | 18.9 | 17 53 | 9 | 9 | 3 | 19.9 | 19 13 | 2 | 6.1 | 2 | 0 | 20 34 | 6 | 2 | 2 | 1 | 21 56 | 0 | 4 | 2 | 2 | 23 19 | 4 | 9.6 | 1 | 2 | 24 43 | 8 | 7 | | | | | |
| 32 | 1 | 5 | 17 23 | 29.9 | 5.0 | 1 | 5 | 18 44 | 1.3 | 2 | 0 | 20.6 | 20 6 | 2.7 | 4 | 0 | 21.7 | 21 29 | 0 | 8.5 | 0 | 22.8 | 22 52 | 5.4 | 7 | \uparrow 29.9 | 23.9 | 24 17 | 8 | 9 | | | | | |
| 33 | 24.9 | 1 | 16 52 | 9 | 2 | 25.9 | 1 | 18 14 | 3 | 3 | 26.8 | 2 | 19 36 | 7 | 7.5 | 27.8 | 3 | 20 59 | 1 | 6 | 28.8 | 4 | 22 24 | 5 | 8 | 7 | 5 | 23 49 | 9 | 11.0 | | | | | |
| 34 | 7 | 17.7 | 16 20 | 9 | 3 | 7 | 18.7 | 17 42 | 3 | 5 | 6 | 19.8 | 19 5 | 7 | 6 | 6 | 20.9 | 20 29 | 1 | 8 | 6 | 0 | 21 54 | 5 | 10.0 | 5 | 1 | 23 20 | 7.0 | 2 | | | | | |
| 35 | 5 | 3 | 15 46 | 9 | 4 | 5 | 3 | 17 9 | 3 | 6.6 | 4 | 4 | 18 32 | 7 | 7 | 4 | 5 | 19 57 | 4.2 | 9 | 4 | 21.6 | 21 23 | 6 | 1 | 3 | 22.7 | 22 50 | 0 | 3 | | | | | |
| 36 | 3 | 16.9 | 15 11 | 9 | 5.5 | 3 | 17.9 | 16 34 | 3 | 7 | 2 | 0 | 17 58 | 2.7 | 8 | 2 | 1 | 19 24 | 2 | 9.1 | 2 | 1 | 20 50 | 6 | 3 | 1 | 2 | 22 18 | 1 | 5 | | | | | |
| 37 | 1 | 4 | 14 33 | 29.9 | 6 | 1 | 5 | 15 57 | 1.3 | 8 | 0 | 18.5 | 17 22 | 8 | 8.0 | 0 | 19.6 | 18 49 | 2 | 2 | 27.9 | 20.7 | 20 16 | 5.7 | 4 | 28.9 | 21.8 | 21 45 | 2 | 6 | | | | | |
| 38 | 23.9 | 15.9 | 13 55 | 9 | 8 | 24.9 | 0 | 15 19 | 3 | 7.0 | 25.8 | 1 | 16 45 | 8 | 1 | 26.8 | 1 | 18 12 | 3 | 4 | 7 | 2 | 19 40 | 8 | 10.6 | 7 | 3 | 21 10 | 7.3 | 8 | | | | | |
| 39 | 7 | 5 | 13 14 | 9 | 9 | 6 | 16.5 | 14 39 | 3 | 1 | 6 | 17.6 | 16 5 | 8 | 3 | 5 | 18.7 | 17 33 | 3 | 5 | 5 | 19.7 | 19 2 | 8 | 8 | 5 | 20.8 | 20 33 | 3 | 12.0 | | | | | |
| 40 | 4 | 0 | 12 31 | 9 | 6.1 | 4 | 0 | 13 57 | 4 | 3 | 3 | 1 | 15 24 | 2.9 | 5 | 3 | 2 | 16 53 | 4.4 | 7 | 3 | 2 | 18 22 | 9 | 9 | 2 | 3 | 19 54 | 4 | 1 | | | | | |
| 41 | 2 | 14.4 | 11 45 | 9 | 3 | 1 | 15.5 | 13 12 | 4 | 5 | 1 | 16.6 | 14 40 | 9 | 7 | 1 | 17.6 | 16 9 | 4 | 9 | 0 | 18.7 | 17 40 | 6.0 | 11.0 | 0 | 19.8 | 19 12 | 5 | 3 | | | | | |
| 42 | 22.9 | 13.9 | 10 58 | 29.9 | 4 | 23.9 | 14.9 | 12 25 | 1.4 | 6 | 24.9 | 0 | 13 54 | 9 | 9 | 25.8 | 1 | 15 24 | 5 | 10.1 | 26.7 | 2 | 16 56 | 0 | 2 | 27.7 | 3 | 18 28 | 7.6 | 5 | | | | | |
| 43 | 6 | 3 | 10 6 | 8 | 6 | 6 | 3 | 11 35 | 4 | 8 | 6 | 15.4 | 13 4 | 3.0 | 9.1 | 5 | 16.5 | 14 35 | 5 | 3 | 5 | 17.6 | 16 8 | 1 | 4 | 4 | 18.7 | 17 42 | 7 | 6 | | | | | |
| 44 | 4 | 12.7 | 9 14 | 8 | 8 | 3 | 13.7 | 10 42 | 4 | 8.0 | 3 | 14.8 | 12 12 | 0 | 2 | 2 | 15.9 | 13 44 | 6 | 5 | 2 | 0 | 15 17 | 2 | 6 | 2 | 1 | 16 52 | 8 | 8 | | | | | |
| 45 | 1 | 1 | 8 17 | 8 | 7.0 | 0 | 1 | 9 46 | 4 | 2 | 0 | 2 | 11 17 | 1 | 4 | 24.9 | 3 | 12 49 | 4.7 | 7 | 25.9 | 16.4 | 14 23 | 6.3 | 9 | 26.9 | 17.5 | 15 59 | 9 | 13.0 | | | | | |
| 46 | 21.8 | 11.5 | 7 16 | 8 | 2 | 22.7 | 12.5 | 8 46 | 5 | 5 | 23.7 | 13.6 | 10 17 | 1 | 6 | 6 | 14.7 | 11 50 | 8 | 9 | 6 | 15.8 | 13 25 | 4 | 12.1 | 6 | 16.8 | 15 2 | 8.1 | 2 | | | | | |
| 47 | 5 | 10.8 | 6 12 | 29.8 | 4 | 4 | 11.8 | 7 42 | 1.5 | 7 | 4 | 12.9 | 9 14 | 2 | 8 | 3 | 0 | 10 48 | 8 | 11.1 | 3 | 1 | 12 23 | 5 | 3 | 3 | 2 | 14 1 | 2 | 4 | | | | | |
| 48 | 2 | 1 | 5 3 | 8 | 6 | 1 | 1 | 6 33 | 5 | 9 | 1 | 2 | 8 6 | 3.2 | 10.0 | 0 | 13.3 | 9 40 | 9 | 4 | 0 | 14.4 | 11 17 | 6 | 5 | 25.9 | 15.5 | 12 56 | 3 | 7 | | | | | |
| 49 | 20.9 | 9.4 | 3 49 | 8 | 8 | 21.8 | 10.4 | 5 20 | 5 | 9.1 | 22.8 | 11.5 | 6 53 | 3 | 3 | 23.7 | 12.6 | 8 28 | 5.0 | 6 | 24.6 | 13.7 | 10 5 | 6.7 | 8 | 6 | 14.7 | 11 45 | 5 | 14.0 | | | | | |
| 50 | 5 | 8.7 | 2 29 | 8 | 8.1 | 5 | 9.7 | 4 1 | 6 | 4 | 4 | 10.7 | 5 34 | 3 | 6 | 4 | 11.8 | 7 10 | 1 | 9 | 3 | 12.9 | 8 48 | 8 | 13.1 | 3 | 0 | 10 28 | 8.6 | 3 | | | | | |
| 51 | 2 | 7.9 | 1 4 | 8 | 4 | 1 | 8.9 | 2 36 | 6 | 7 | 1 | 9.9 | 4 9 | 4 | 9 | 0 | 0 | 5 45 | 2 | 12.2 | 23.9 | 1 | 7 24 | 9 | 4 | 24.9 | 13.2 | 9 5 | 7 | 6 | | | | | |
| 52 | 19.8 | 0 | \uparrow 29 33 | 29.8 | 7 | 20.7 | 1 | 1 4 | 1.7 | 10.0 | 21.7 | 1 | 2 38 | 3.5 | 11.2 | 22.6 | 10.1 | 4 14 | 3 | 5 | 5 | 11.2 | 5 53 | 7.1 | 7 | 5 | 12.3 | 7 35 | 9 | 9 | | | | | |
| 53 | 4 | 6.1 | 27 54 | 8 | 9.0 | 3 | 7.2 | 29 25 | 7 | 3 | 2 | 8.2 | 0 59 | 6 | 5 | 2 | 9.2 | 2 35 | 5.4 | 8 | 1 | 10.3 | 4 14 | 3 | 14.1 | 1 | 11.3 | 5 57 | 9.1 | 15.2 | | | | | |
| 54 | 18.9 | 5.1 | 26 7 | 8 | 3 | 19.9 | 6.2 | 27 38 | 8 | 6 | 20.8 | 7.2 | 29 11 | 7 | 8 | 21.7 | 8.2 | 0 47 | 6 | 13.1 | 22.7 | 9.3 | 2 27 | 5 | 4 | 23.6 | 10.3 | 4 9 | 3 | 6 | | | | | |
| 55 | 5 | 4.1 | 24 11 | 8 | 6 | 4 | 5.1 | 25 41 | 8 | 9 | 3 | 6.1 | 27 14 | 7 | 12.2 | 3 | 7.1 | 28 50 | 7 | 5 | 2 | 8.2 | 0 28 | 7 | 8 | 1 | 9.3 | 2 10 | 6 | 16.1 | | | | | |
| 56 | 0 | 3.0 | 22 6 | 8 | 9 | 18.9 | 3.9 | 23 35 | 8 | 11.3 | 19.8 | 5.0 | 25 6 | 8 | 5 | 20.8 | 6.0 | 26 41 | 9 | 9 | 21.7 | 7.0 | \uparrow 28 19 | 9 | 15.2 | 22.6 | 8.1 | 0 0 | 9 | 5 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 16 24 55 } ♀ ARC 246° 13'.8 } 8° | | | | | H. M. S. 16 29 11 } ♀ 9° 247° 17'.6 } 9° | | | | | H. M. S. 16 33 26 } ♀ 10° 248° 21'.6 } 10° | | | | | H. M. S. 16 37 42 } ♀ 11° 249° 25'.6 } 11° | | | | | H. M. S. 16 41 59 } ♀ 12° 250° 29'.8 } 12° | | | | | H. M. S. 16 46 16 } ♀ 13° 251° 34'.1 } 13° | | | | | | | | | | | |
|---|------|------|-------|------|--|------|------|-------|-------|--|------|------|-------|-------|--|------|------|-------|-------|--|------|------|------|------|--|------|------|------|------|------|------|-------|----|------|------|------|
| 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | | | |
| Lat. | ♊ | ♋ | ♌ | ♍ | ♊ | ♋ | ♌ | ♍ | ♊ | ♋ | ♌ | ♍ | ♊ | ♋ | ♌ | ♍ | ♊ | ♋ | ♌ | ♍ | ♊ | ♋ | ♌ | ♍ | ♊ | ♋ | ♌ | ♍ | ♊ | | | | | | | |
| 22 | 2.6 | 23.3 | 29.18 | 7.6 | 10.7 | 3.6 | 29.4 | 0.37 | 8.9 | 11.9 | 4.6 | 0.5 | 1.57 | 10.3 | 13.0 | 5.6 | 1.6 | 3.17 | 11.6 | 14.1 | 6.6 | 2.7 | 4.38 | 12.9 | 15.2 | 7.6 | 3.8 | 5.59 | 14.2 | 16.4 | | | | | | |
| 23 | 5 | 0 | 28.59 | 7 | 8 | 5 | 1 | 0.19 | 9.0 | 12.0 | 4 | 2 | 1.40 | 3 | 1 | 4 | 3 | 3 | 1 | 6 | 2 | 4 | 4 | 4.22 | 13.0 | 4 | 4 | 5 | 5.44 | 3 | 5 | | | | | |
| 24 | 3 | 27.7 | 28.40 | 7 | 11.0 | 3 | 28.8 | 0 | 1 | 1 | 3 | 29.9 | 1 | 22 | 4 | 2 | 3 | 0 | 2.44 | 7 | 4 | 3 | 1 | 4 | 6 | 1 | 5 | 2 | 2 | 5.29 | 4 | 6 | | | | |
| 25 | 2 | 4 | 28.21 | 8 | 1 | 1 | 5 | 29.42 | 1 | 2 | 1 | 6 | 1 | 4 | 5 | 4 | 1 | 0.7 | 2.26 | 8 | 5 | 1 | 1.8 | 3.49 | 1 | 6 | 1 | 2.9 | 5 | 13 | 5 | 8 | | | | |
| 26 | 0 | 1 | 28 | 1 | 8 | 2 | 0 | 2 | 29.23 | 2 | 3 | 3.9 | 3 | 0.45 | 5 | 13.5 | 4.9 | 4 | 2 | 8 | 9 | 14.6 | 5.9 | 5 | 3.32 | 2 | 7 | 6.9 | 6 | 4 | 5.6 | 14.6 | 9 | | | |
| 27 | 1.8 | 26.7 | 27.40 | 9 | 3 | 2.8 | 27.8 | 29 | 2 | 3 | 12.5 | 8 | 28.9 | 0 | 26 | 10.6 | 6 | 8 | 0 | 1.50 | 12.0 | 7 | 7 | 1 | 3.14 | 3 | 9 | 7 | 3 | 4.39 | 7 | 17.0 | | | | |
| 28 | 6 | 4 | 27.18 | 8.0 | 11.5 | 6 | 5 | 28.41 | 9.3 | 6 | 6 | 6 | 0 | 5 | 7 | 7 | 6 | 29.7 | 1 | 30 | 1 | 9 | 6 | 0.8 | 2.56 | 13.4 | 16.0 | 6 | 0 | 4.22 | 8 | 2 | | | | |
| 29 | 5 | 0 | 26.56 | 0 | 6 | 4 | 1 | 28.20 | 4 | 7 | 4 | 3 | 29.44 | 8 | 9 | 4 | 4 | 1 | 1.10 | 2 | 15.0 | 4 | 5 | 2 | 3.6 | 5 | 2 | 4 | 1.6 | 4 | 3 | 9 | 3 | | | |
| 30 | 3 | 25.7 | 26.32 | 1 | 7 | 3 | 26.8 | 27 | 5.7 | 5 | 9 | 2 | 27.9 | 29 | 22 | 9 | 14.0 | 2 | 0 | 0.49 | 3 | 2 | 2 | 2 | 2.16 | 7 | 3 | 2 | 3 | 3.44 | 15.1 | 5 | | | | |
| 31 | 1 | 3 | 26 | 8 | 2 | 9 | 1 | 4 | 27.33 | 6 | 13.0 | 1 | 5 | 29 | 0 | 11.0 | 2 | 0 | 28.7 | 0 | 27 | 4 | 3 | 0 | 29.8 | 1 | 55 | 8 | 5 | 0 | 0.9 | 3.24 | 2 | 17.6 | | |
| 32 | 0.9 | 0 | 25.42 | 2 | 12.0 | 1.9 | 1 | 27 | 8 | 9.6 | 2 | 2.9 | 2 | 28.36 | 1 | 3 | 3.8 | 3 | 0 | 4 | 12.5 | 5 | 4.8 | 5 | 1.33 | 9 | 16.6 | 5.8 | 6 | 3 | 3 | 3 | 8 | | | |
| 33 | 7 | 24.6 | 25.15 | 8.3 | 2 | 7 | 25.7 | 26 | 4.2 | 7 | 3 | 7 | 26.8 | 28 | 11 | 2 | 5 | 6 | 27.9 | 29 | 40 | 6 | 15.6 | 6 | 1 | 1 | 10 | 14.0 | 8 | 6 | 2 | 2.40 | 4 | 9 | | |
| 34 | 5 | 2 | 24.47 | 4 | 3 | 5 | 3 | 26.15 | 8 | 5 | 5 | 4 | 27.44 | 3 | 6 | 4 | 5 | 29.14 | 7 | 8 | 4 | 28.7 | 0 | 45 | 1 | 9 | 4 | 29.8 | 2 | 17 | 15.6 | 18.0 | | | | |
| 35 | 3 | 23.8 | 24.18 | 5 | 5 | 3 | 24.9 | 25 | 4.7 | 9 | 13.6 | 3 | 0 | 27.17 | 4 | 8 | 2 | 1 | 28.48 | 8 | 9 | 2 | 3 | 0 | 20 | 3 | 17.1 | 2 | 4 | 1.53 | 7 | 1 | | | | |
| 36 | 1 | 3 | 23.47 | 6 | 6 | 1 | 4 | 25.17 | 10.0 | 8 | 1 | 25.6 | 26 | 48 | 11.5 | 15.0 | 0 | 26.7 | 28 | 20 | 9 | 16.0 | 0 | 27.8 | 29 | 53 | 4 | 3 | 0 | 0 | 1.27 | 9 | 3 | | | |
| 37 | 29.9 | 22.9 | 23.15 | 8.6 | 8 | 0.8 | 0 | 24.45 | 1 | 9 | 1.8 | 1 | 26.17 | 6 | 1 | 2.8 | 3 | 27.51 | 13.1 | 2 | 3.8 | 4 | 29 | 25 | 14.6 | 5 | 4.8 | 28.5 | 1 | 0 | 16.0 | 5 | | | | |
| 38 | 7 | 4 | 22.40 | 7 | 13.0 | 6 | 23.5 | 24 | 1.2 | 2 | 14.0 | 6 | 24.7 | 25 | 45 | 7 | 2 | 6 | 25.8 | 27 | 20 | 2 | 4 | 6 | 26.9 | 28 | 55 | 7 | 6 | 6 | 1 | 0.32 | 2 | 7 | | |
| 39 | 4 | 21.9 | 22 | 4 | 8 | 1 | 4 | 0 | 23.37 | 3 | 2 | 4 | 2 | 25.11 | 8 | 4 | 4 | 3 | 26.47 | 4 | 6 | 3 | 5 | 28 | 23 | 9 | 8 | 3 | 27.6 | 0 | 1 | 4 | 9 | | | |
| 40 | 2 | 4 | 21.26 | 9 | 3 | 2 | 22.5 | 23 | 0 | 4 | 4 | 1 | 23.7 | 24 | 35 | 12.0 | 6 | 1 | 24.8 | 26 | 12 | 5 | 8 | 1 | 0 | 27 | 50 | 15.0 | 18.0 | 1 | 1 | 29.29 | 5 | 19.1 | | |
| 41 | 28.9 | 20.9 | 20.46 | 9.0 | 5 | 29.9 | 0 | 22.21 | 10.5 | 6 | 0.9 | 0 | 23.57 | 1 | 8 | 1.9 | 3 | 25.35 | 7 | 17.0 | 2.9 | 25.5 | 27 | 14 | 2 | 2 | 3.8 | 26.6 | 28 | 54 | 7 | 3 | | | | |
| 42 | 7 | 4 | 20 | 3 | 2 | 7 | 7 | 21.5 | 21 | 3.9 | 6 | 8 | 6 | 22.6 | 23 | 17 | 3 | 16.0 | 6 | 23.8 | 24 | 56 | 9 | 2 | 6 | 24.9 | 26 | 36 | 4 | 4 | 6 | 1 | 28 | 18 | 9 | 5 |
| 43 | 4 | 19.8 | 19.17 | 3 | 9 | 4 | 20.9 | 20 | 5.5 | 7 | 15.0 | 4 | 0 | 22.33 | 5 | 2 | 3 | 2 | 24.14 | 14.1 | 4 | 3 | 3 | 25 | 55 | 6 | 6 | 3 | 25.5 | 27 | 39 | 17.1 | 8 | | | |
| 44 | 1 | 2 | 18.29 | 4 | 14.1 | 1 | 3 | 20 | 7 | 9 | 2 | 1 | 21.4 | 21 | 47 | 12.6 | 5 | 1 | 22.6 | 23 | 29 | 3 | 7 | 0 | 23.7 | 25 | 12 | 8 | 9 | 0 | 24.9 | 26 | 57 | 3 | 20.0 | |
| 45 | 27.8 | 18.6 | 17.36 | 9.6 | 3 | 28.8 | 19.7 | 19 | 16 | 11.1 | 4 | 29.8 | 20.8 | 20 | 5.7 | 7 | 7 | 0.8 | 0 | 22.40 | 5 | 9 | 1.7 | 1 | 24 | 25 | 16.0 | 19.1 | 2.7 | 3 | 26 | 12 | 6 | 3 | | |
| 46 | 5 | 17.9 | 16.41 | 7 | 6 | 5 | 0 | 18.22 | 3 | 7 | 5 | 2 | 20 | 4 | 9 | 9 | 5 | 21.3 | 21 | 48 | 7 | 18.1 | 4 | 22.5 | 23 | 35 | 2 | 3 | 4 | 23.6 | 25 | 23 | 8 | 6 | | |
| 47 | 2 | 3 | 15.41 | 8 | 8 | 2 | 18.4 | 17 | 2.3 | 5 | 9 | 2 | 19.5 | 19 | 7 | 13.1 | 17.1 | 2 | 20.6 | 20 | 52 | 9 | 3 | 1 | 21.8 | 22 | 41 | 4 | 6 | 1 | 0 | 24 | 31 | 18.1 | 8 | |
| 48 | 26.9 | 16.6 | 14.36 | 9 | 15.0 | 27.9 | 17.7 | 16 | 1.9 | 7 | 16.2 | 28.9 | 18.8 | 18 | 5 | 3 | 4 | 29.8 | 19.9 | 19 | 52 | 15.1 | 6 | 0.8 | 1 | 21 | 42 | 7 | 9 | 1.8 | 22.3 | 23 | 34 | 4 | 21.1 | |
| 49 | 6 | 15.8 | 13.27 | 10.1 | 3 | 5 | 16.9 | 15 | 1.1 | 9 | 5 | 5 | 1 | 16.58 | 5 | 7 | 5 | 2 | 18.46 | 3 | 9 | 5 | 20.4 | 20 | 38 | 17 | 0 | 20.2 | 5 | 21.5 | 22 | 32 | 7 | 4 | | |
| 50 | 2 | 1 | 12.11 | 3 | 6 | 2 | 2 | 13.56 | 12.1 | 8 | 1 | 17.3 | 15 | 4.4 | 8 | 18.0 | 1 | 18.4 | 17 | 35 | 6 | 19.2 | 1 | 19.6 | 19 | 28 | 3 | 5 | 1 | 20.8 | 21 | 24 | 19 | 0 | 7 | |
| 51 | 25.8 | 14.3 | 10.49 | 5 | 9 | 26.8 | 15.4 | 12 | 3.5 | 3 | 17.2 | 27.8 | 16.5 | 14 | 24 | 14.1 | 3 | 28.7 | 17.6 | 16 | 16 | 9 | 5 | 29.7 | 18.8 | 18 | 11 | 6 | 8 | 0 | 7 | 19.9 | 20 | 9 | 4 | 22.0 |
| 52 | 4 | 13.4 | 9.19 | 7 | 16.2 | 4 | 14.5 | 11 | 7 | 6 | 5 | 4 | 15.6 | 12 | 5.7 | 4 | 6 | 3 | 16.7 | 14 | 50 | 16.2 | 9 | 3 | 17.9 | 16 | 47 | 18.0 | 21.1 | 3 | 0 | 18 | 46 | 8 | 4 | |
| 53 | 0 | 12.4 | 7.42 | 9 | 6 | 0 | 13.5 | 9 | 3.0 | 9 | 8 | 0 | 14.7 | 11 | 2.1 | 7 | 19.0 | 27.9 | 15.8 | 13 | 15 | 5 | 20.3 | 28.9 | 16.9 | 15 | 14 | 4 | 5 | 29.9 | 18.1 | 17 | 15 | 20.2 | 7 | |
| 54 | 24.6 | 11.4 | 5.54 | 11.2 | 9 | 25.5 | 12.5 | 7 | 4.3 | 13.2 | 18.2 | 26.5 | 13.6 | 9 | 35 | 15.0 | 4 | 4 | 14.8 | 11 | 31 | 9 | 7 | 4 | 15.9 | 13 | 31 | 8 | 9 | 4 | 17.1 | 15 | 34 | 7 | 23.1 | |
| 55 | 1 | 10.3 | 3.56 | 5 | 17.3 | 0 | 11.4 | 5 | 4.5 | 5 | 6 | 0 | 12.5 | 7 | 3.8 | 4 | 8 | 26.9 | 13.7 | 9 | 35 | 17.3 | 21.1 | 27.9 | 14.8 | 11 | 36 | 19.3 | 22.3 | 28.9 | 16.0 | 13 | 41 | 21.2 | 6 | |
| 56 | 23.6 | 9.1 | 1.45 | 8 | 7 | 24.5 | 10.2 | 3 | 3.4 | 9 | 19.0 | 25.5 | 11.3 | 5 | 2.7 | 8 | 20.2 | 4 | 12.5 | 7 | 25 | 8 | 5 | 4 | 13.6 | 9 | 27 | 8 | 7 | 3 | 14.8 | 11 | 33 | 8 | 24.0 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 16 46 16 } ♄ ARC 251° 34'.1 } 13° | | | | | | H. M. S. 16 50 34 } ♄ 14° 252° 38'.5 } | | | | | | H. M. S. 16 54 52 } ♄ 15° 253° 43'.1 } | | | | | | H. M. S. 16 59 11 } ♄ 16° 254° 47'.7 } | | | | | | H. M. S. 17 3 30 } ♄ 17° 255° 52'.5 } | | | | | | H. M. S. 17 7 49 } ♄ 18° 256° 57'.3 } | | | | | | |
|--|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|------|--|------|------|------|------|-------|---|------|------|------|-------|------|---|------|------|-----|------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | |
| 22 | 7.6 | 3.8 | 5.59 | 14.2 | 16.4 | 8.6 | 4.9 | 7.21 | 15.5 | 17.5 | 9.6 | 6.1 | 8.43 | 16.8 | 18.6 | 10.6 | 7.2 | 10.6 | 18.1 | 19.7 | 11.6 | 8.3 | 11.29 | 19.4 | 20.8 | 12.6 | 9.5 | 12.53 | 20.7 | 21.9 | | | | | | |
| 23 | 4 | 5 | 5.44 | 3 | 5 | 4 | 6 | 7 | 7 | 6 | 4 | 5.8 | 8.30 | 9 | 7 | 4 | 6.9 | 9.53 | 2 | 9 | 4 | 1 | 11 | 17 | 5 | 21.0 | 4 | 2 | 12 | 42 | 9 | 22.1 | | | | |
| 24 | 2 | 2 | 5.29 | 4 | 6 | 2 | 3 | 6.52 | 7 | 8 | 2 | 5 | 8.16 | 17.0 | 9 | 3 | 6 | 9.40 | 4 | 20.0 | 3 | 7.8 | 11 | 5 | 7 | 1 | 3 | 8.9 | 12 | 31 | 21.0 | 2 | | | | |
| 25 | 1 | 2.9 | 5.13 | 5 | 8 | 1 | 0 | 6.37 | 8 | 9 | 1 | 2 | 8.2 | 2 | 19.0 | 1 | 3 | 9.27 | 5 | 1 | 1 | 5 | 10 | 5.3 | 8 | 2 | 1 | 6 | 12 | 19 | 1 | 4 | | | | |
| 26 | 6.9 | 6 | 4.56 | 14.6 | 9 | 7.9 | 3.7 | 6.21 | 9 | 18.0 | 8.9 | 4.9 | 7.47 | 3 | 1 | 9.9 | 0 | 9.13 | 18.6 | 3 | 10.9 | 2 | 10 | 40 | 20.0 | 4 | 0 | 3 | 12 | 7 | 3 | 5 | | | | |
| 27 | 7 | 3 | 4.39 | 7 | 17.0 | 7 | 4 | 6.5 | 16.0 | 2 | 7 | 6 | 7.31 | 4 | 3 | 8 | 5.7 | 8.59 | 8 | 4 | 8 | 6.9 | 10 | 2.6 | 1 | 21.5 | 11.8 | 0 | 11 | 5.4 | 4 | 22.6 | | | | |
| 28 | 6 | 0 | 4.22 | 8 | 2 | 6 | 1 | 5.48 | 2 | 3 | 6 | 2 | 7.15 | 17.5 | 4 | 6 | 4 | 8.44 | 9 | 20.5 | 6 | 6 | 10 | 1.2 | 3 | 7 | 6 | 7.7 | 11 | 4.1 | 6 | 8 | | | | |
| 29 | 4 | 1.6 | 4.3 | 9 | 3 | 4 | 2.8 | 5.31 | 3 | 4 | 4 | 3.9 | 6.59 | 7 | 19.6 | 4 | 1 | 8.28 | 19.0 | 7 | 4 | 3 | 9.57 | 4 | 8 | 4 | 4 | 11 | 2.7 | 8 | 9 | | | | | |
| 30 | 2 | 3 | 3.44 | 15.1 | 5 | 2 | 4 | 5.12 | 4 | 18.6 | 2 | 6 | 6.42 | 8 | 7 | 2 | 4.7 | 8.11 | 2 | 9 | 2 | 5.9 | 9.42 | 20.6 | 22.0 | 3 | 1 | 11 | 1.3 | 22.0 | 23.1 | | | | | |
| 31 | 0 | 0.9 | 3.24 | 2 | 17.6 | 0 | 1 | 4.53 | 16.6 | 7 | 0 | 3 | 6.23 | 18.0 | 9 | 0 | 4 | 7.54 | 4 | 21.0 | 0 | 6 | 9.26 | 8 | 1 | 1 | 6.8 | 10 | 5.8 | 1 | 3 | | | | | |
| 32 | 5.8 | 6 | 3.3 | 3 | 8 | 6.8 | 1.7 | 4.33 | 7 | 9 | 7.8 | 2.9 | 6.4 | 1 | 20.0 | 8.8 | 1 | 7.36 | 5 | 2 | 9.8 | 2 | 9 | 9 | 9 | 3 | 10.9 | 4 | 10 | 4.3 | 3 | 4 | | | | |
| 33 | 6 | 2 | 2.40 | 4 | 9 | 6 | 4 | 4.12 | 9 | 19.0 | 6 | 5 | 5.45 | 3 | 2 | 6 | 3.7 | 7.18 | 7 | 3 | 6 | 4.9 | 8.52 | 21.1 | 5 | 7 | 1 | 10 | 2.6 | 5 | 6 | | | | | |
| 34 | 4 | 2.9 | 2 | 17 | 15.6 | 4 | 0 | 3.50 | 17.0 | 2 | 4 | 1 | 5.24 | 4 | 4 | 4 | 3 | 6.58 | 9 | 5 | 4 | 5 | 8.33 | 3 | 6 | 5 | 5.7 | 10 | 9 | 7 | 7 | | | | | |
| 35 | 2 | 4 | 1.53 | 7 | 1 | 2 | 0.6 | 3.27 | 2 | 4 | 2 | 1.7 | 5.2 | 6 | 5 | 2 | 2.9 | 6.37 | 20.0 | 7 | 2 | 1 | 8.13 | 5 | 8 | 3 | 3 | 9 | 5.1 | 9 | 9 | | | | | |
| 36 | 0 | 0 | 1.27 | 9 | 3 | 0 | 1 | 3.2 | 4 | 6 | 0 | 3 | 4.38 | 8 | 7 | 0 | 5 | 6.15 | 2 | 9 | 0 | 3.7 | 7.53 | 7 | 23.0 | 1 | 4.9 | 9 | 3.2 | 23.1 | 24.1 | | | | | |
| 37 | 4.8 | 28.5 | 1 | 0 | 16.0 | 5.8 | 29.7 | 2 | 3.7 | 5 | 6.8 | 0.9 | 4.14 | 19.0 | 9 | 7.8 | 1 | 5.52 | 4 | 22.1 | 8.8 | 2 | 7.31 | 9 | 2 | 9.8 | 5 | 9 | 1.1 | 3 | 3 | | | | | |
| 38 | 6 | 1 | 0.32 | 2 | 7 | 6 | 3 | 2.9 | 7 | 9 | 6 | 4 | 3.48 | 2 | 21.1 | 6 | 1.6 | 5.27 | 6 | 2 | 6 | 2.8 | 7.8 | 22.1 | 4 | 6 | 0 | 8 | 5.0 | 6 | 5 | | | | | |
| 39 | 3 | 27.6 | 0 | 1 | 4 | 9 | 3 | 28.8 | 1 | 40 | 9 | 20.1 | 3 | 0 | 3.20 | 4 | 3 | 2 | 5 | 1 | 8 | 4 | 4 | 3 | 6.44 | 3 | 6 | 4 | 3.6 | 8 | 2.7 | 8 | 7 | | | |
| 40 | 1 | 1 | 29 | 2.9 | 5 | 19.1 | 1 | 3 | 1 | 9 | 18.0 | 3 | 1 | 29.5 | 2 | 5 | 1 | 0.7 | 4.34 | 21.0 | 6 | 1 | 1.9 | 6.18 | 5 | 8 | 2 | 1 | 8 | 3 | 24.0 | 9 | | | | |
| 41 | 3.8 | 26.6 | 28 | 5.4 | 7 | 3 | 4.8 | 27.8 | 0 | 3.6 | 2 | 5 | 5.8 | 0 | 2.19 | 7 | 7 | 6.9 | 2 | 4 | 4 | 2 | 8 | 7.9 | 4 | 5 | 5.0 | 8 | 24.0 | 8.9 | 2.6 | 7 | 3.6 | 3 | 25.1 | |
| 42 | 6 | 1 | 28 | 1.8 | 9 | 5 | 6 | 3 | 0 | 1 | 5 | 7 | 6 | 28.4 | 1 | 4.6 | 9 | 9 | 6 | 29.6 | 3 | 3.2 | 5 | 23.0 | 6 | 0.9 | 5 | 2.0 | 23.1 | 2 | 6 | 1 | 7 | 8 | 6 | 3 |
| 43 | 3 | 25.5 | 27 | 3.9 | 17.1 | 8 | 3 | 26.7 | 29 | 2.4 | 7 | 9 | 3 | 27.9 | 1 | 1.0 | 20.2 | 22.1 | 3 | 1 | 2.58 | 8 | 3 | 3 | 3 | 4.48 | 4 | 4 | 4 | 1.5 | 6 | 3.8 | 9 | 6 | | |
| 44 | 0 | 24.9 | 26 | 5.7 | 3 | 20.0 | 0 | 1 | 28 | 4.4 | 9 | 21.2 | 0 | 3 | 0.32 | 5 | 4 | 0 | 28.5 | 2 | 2.2 | 22.1 | 5 | 1 | 29.7 | 4 | 1.3 | 7 | 7 | 1 | 0.9 | 6 | 6 | 25.2 | 8 | |
| 45 | 2.7 | 3 | 26 | 1.2 | 6 | 3 | 3.7 | 25.5 | 28 | 0 | 19.2 | 5 | 4.7 | 26.7 | 29 | 5.0 | 8 | 6 | 5.7 | 27.9 | 1 | 4.2 | 4 | 8 | 6.8 | 1 | 3 | 3.6 | 24.0 | 25.0 | 7.8 | 3 | 5 | 3.1 | 5 | 26.1 |
| 46 | 4 | 23.6 | 25 | 2.3 | 8 | 6 | 4 | 24.8 | 27 | 1.4 | 4 | 7 | 4 | 0 | 29 | 6 | 21.1 | 9 | 4 | 2 | 1 | 0 | 7 | 24.1 | 5 | 28.5 | 2 | 5.5 | 3 | 2 | 5 | 29.7 | 4 | 5.3 | 8 | 4 |
| 47 | 1 | 0 | 24 | 3.1 | 18.1 | 8 | 1 | 1 | 26 | 2.3 | 7 | 22.0 | 1 | 25.3 | 28 | 1.7 | 4 | 23.2 | 1 | 26.6 | 0 | 1.3 | 23.0 | 4 | 1 | 27.8 | 2 | 1.2 | 6 | 5 | 1 | 0 | 4 | 1.2 | 26.2 | 7 |
| 48 | 1.8 | 22.3 | 23 | 3.4 | 4 | 21.1 | 2.8 | 23.4 | 25 | 2.8 | 3 | 3.8 | 24.6 | 27 | 2.5 | 7 | 5 | 4.8 | 25.9 | 29 | 2.3 | 3 | 7 | 5.8 | 1 | 1 | 2.4 | 25.0 | 8 | 6.8 | 28.3 | 3 | 2.7 | 6 | 27.0 | |
| 49 | 5 | 21.5 | 22 | 3.2 | 7 | 4 | 4 | 22.7 | 24 | 2.8 | 3 | 6 | 4 | 23.9 | 26 | 2.7 | 22.0 | 8 | 4 | 2 | 28 | 2.8 | 7 | 25.0 | 4 | 26.4 | 0 | 3.2 | 4 | 26.1 | 5 | 27.6 | 2 | 3.7 | 27.0 | 3 |
| 50 | 1 | 20.8 | 21 | 2.4 | 19.0 | 7 | 1 | 21.9 | 23 | 2.2 | 7 | 9 | 1 | 25 | 2.3 | 4 | 24.1 | 1 | 24.4 | 27 | 2.7 | 24.1 | 3 | 1 | 25.6 | 29 | 3.4 | 8 | 4 | 1 | 26.8 | 1 | 4.2 | 5 | 6 | |
| 51 | 0.7 | 19.9 | 20 | 9 | 4 | 22.0 | 1.7 | 1 | 22 | 1.0 | 21.1 | 23.2 | 2.7 | 22.3 | 24 | 1.3 | 8 | 4 | 3.7 | 23.5 | 26 | 2.0 | 5 | 7 | 4.7 | 24.8 | 28 | 2.9 | 26.3 | 8 | 5.7 | 0 | 0.4 | 28.0 | 9 | |
| 52 | 3 | 0 | 18 | 4.6 | 8 | 4 | 3 | 20.2 | 20 | 5.0 | 5 | 6 | 3 | 21.4 | 22 | 5.6 | 3 | 22.6 | 25 | 5 | 25.0 | 26.0 | 3 | 23.9 | 27 | 1.8 | 8 | 27.2 | 3 | 25.1 | 29 | 3.4 | 5 | 28.3 | | |
| 53 | 29.9 | 18.1 | 17 | 1.5 | 20.2 | 7 | 0.9 | 19.2 | 19 | 2.1 | 22.0 | 24.0 | 1.9 | 20.4 | 21 | 3.0 | 7 | 25.2 | 2.9 | 21.7 | 23 | 4.2 | 5 | 3 | 3.9 | 22.9 | 25 | 5.8 | 27.4 | 6 | 4.9 | 24.2 | 28 | 1.8 | 29.1 | 7 |
| 54 | 4 | 17.1 | 15 | 3.4 | 7 | 23.1 | 4 | 18.2 | 17 | 4.1 | 5 | 4 | 4 | 19.4 | 19 | 5.3 | 24.3 | 6 | 4 | 20.6 | 22 | 9 | 26.1 | 7 | 4 | 21.8 | 24 | 2.8 | 28.0 | 28.0 | 4 | 23.2 | 26 | 5.2 | 8 | 29.1 |
| 55 | 28.9 | 16.0 | 13 | 4.1 | 21.2 | 6 | 29.9 | 17.1 | 15 | 5.0 | 23.1 | 8 | 0.9 | 18.3 | 18 | 4 | 9 | 26.0 | 1.9 | 19.5 | 20 | 2.3 | 8 | 27.2 | 2.9 | 20.8 | 22 | 4.6 | 7 | 4 | 3.9 | 22.0 | 25 | 1.4 | 0.5 | 6 |
| 56 | 3 | 14.8 | 11 | 3.3 | 8 | 24.0 | 3 | 15.9 | 13 | 4.5 | 7 | 25.2 | 3 | 17.0 | 16 | 1 | 25.6 | 5 | 3 | 18.2 | 18 | 2.2 | 27.6 | 8 | 3 | 19.6 | 20 | 5.0 | 29.5 | 9 | 3 | 20.8 | 23 | 2.2 | 1.3 | 0.2 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th II.

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| H. M. S. SID. T. 17 12 9 } ∇ ARC 258° 2' 2 } 19° | | | | | | H. M. S. 17 16 29 } ∇ 20° 259° 7' 2 } ∇ 20° | | | | | | H. M. S. 17 20 49 } ∇ 21° 260° 12' 3 } ∇ 21° | | | | | | H. M. S. 17 25 10 } ∇ 22° 261° 17' 4 } ∇ 22° | | | | | | H. M. S. 17 29 30 } ∇ 23° 262° 22' 6 } ∇ 23° | | | | | | H. M. S. 17 33 51 } ∇ 24° 263° 27' 8 } ∇ 24° | | | | | |
|---|------|------|-------|--------|------|---|-------|-------|--------|--------|--------|--|--------|--------|---------|--------|--------|--|--------|--------|--------|--------|--------|--|--------|-------|-------|-------|------|--|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | | | | | |
| 22 | 13.6 | 10.7 | 14 17 | 22.0 | 23.0 | 14.6 | 11.8 | 15 42 | 23.3 | 24.1 | 15.6 | 13.0 | 17 6 | 24.6 | 25.2 | 16.7 | 14.2 | 18 32 | 25.9 | 26.3 | 17.7 | 15.4 | 19 57 | 27.2 | 27.4 | 18.8 | 16.6 | 21 23 | 28.5 | 28.5 | | | | | |
| 23 | 5 | 4 14 | 7 | 2 | 2 | 5 | 6 15 | 32 | 5 | 3 | 5 12.7 | 16 58 | 8 | 4 | 5 13.9 | 18 24 | 26.1 | 5 | 5 | 1 19 | 51 | 4 | 6 | 6 | 6 | 3 21 | 17 | 7 | 6 | | | | | | |
| 24 | 3 | 1 13 | 57 | 3 | 3 | 3 | 3 15 | 23 | 6 | 4 | 3 5 16 | 50 | 9 | 5 | 4 7 18 | 17 | 2 | 6 | 4 14.9 | 19 44 | 6 | 7 | 4 | 4 | 1 21 | 11 | 9 | 8 | | | | | | | |
| 25 | 1 | 9.8 | 13 46 | 5 | 5 | 2 | 0 15 | 13 | 8 | 6 | 2 2 16 | 41 | 25.1 | 7 | 2 4 18 | 9 | 4 | 8 | 2 6 19 | 37 | 7 | 9 | 3 15.8 | 21 | 5 29 | 1 | 9 | | | | | | | | |
| 26 | 0 | 5 13 | 35 | 6 23.6 | 0 | 10.7 | 15 3 | 24.0 | 7 | 0 11.9 | 16 31 | 3 | 8 | 0 1 18 | 0 | 6 | 9 | 1 3 19 | 30 | 9 28.0 | 1 | 5 20 | 59 | 3 29.1 | | | | | | | | | | | |
| 27 | 12.8 | 2 13 | 23 | 8 | 8 | 13.8 | 4 14 | 52 | 1 | 9 | 14.8 | 6 16 | 22 | 5 26.0 | 15.9 | 12.8 | 17 52 | 8 27.1 | 16.9 | 0 19 | 22 | 28.1 | 2 | 17.9 | 3 20 | 53 | 5 | 3 | | | | | | | |
| 28 | 6 | 8.9 | 13 11 | 23.0 | 9 | 6 | 1 14 | 41 | 3 25.0 | 7 | 3 16 | 12 | 6 | 1 | 7 5 17 | 43 | 27.0 | 2 | 7 13.7 | 19 14 | 3 | 3 | 8 | 0 20 | 46 | 7 | 4 | | | | | | | | |
| 29 | 4 | 6 12 | 58 | 1 24.0 | 5 | 9.8 | 14 30 | 5 | 2 | 5 | 0 16 | 1 | 8 | 3 | 5 2 17 | 33 | 2 | 4 | 6 5 19 | 6 | 5 | 5 | 6 14.7 | 20 39 | 9 | 6 | | | | | | | | | |
| 30 | 3 | 3 12 | 45 | 3 | 2 | 3 | 5 14 | 17 | 7 | 3 | 3 10.7 | 15 50 | 26.0 | 4 | 3 11.9 | 17 24 | 4 | 5 | 4 2 18 | 57 | 8 | 6 | 4 | 4 20 | 31 | 0.1 | 7 | | | | | | | | |
| 31 | 1 | 0 12 | 31 | 5 | 4 | 1 | 2 14 | 5 | 9 | 5 | 1 4 15 | 39 | 2 | 6 | 2 6 17 | 13 | 6 | 7 | 2 12.9 | 18 48 | 29.0 | 8 | 2 | 1 20 | 24 | 3 | 9 | | | | | | | | |
| 32 | 11.9 | 7.6 | 12 17 | 7 | 5 | 12.9 | 8.9 | 13 51 | 25.1 | 7 | 13.9 | 1 15 | 27 | 4 | 8 | 0 3 17 | 3 | 8 | 9 | 0 5 18 | 39 | 2 29.0 | 1 13.8 | 20 16 | 5 | 0.1 | | | | | | | | | |
| 33 | 7 | 3 12 | 2 | 9 | 7 | 7 | 5 13 | 37 | 3 | 8 | 7 9.7 | 15 14 | 7 27.0 | 14.8 | 0 16 | 51 | 28.0 | 28.1 | 15.8 | 2 18 | 29 | 4 | 2 | 16.9 | 4 20 | 7 | 8 | 3 | | | | | | | |
| 34 | 5 | 6.9 | 11 46 | 24.1 | 9 | 5 | 1 13 | 23 | 5 26.0 | 5 | 3 15 | 1 | 9 | 1 | 6 10.6 | 16 39 | 3 | 3 | 6 11.8 | 18 18 | 6 | 4 | 7 | 1 19 | 58 | 1.0 | 5 | | | | | | | | |
| 35 | 3 | 5 11 | 29 | 3 25.1 | 3 | 7.7 | 13 7 | 7 | 2 | 3 | 0 14 | 47 | 27.1 | 3 | 4 2 16 | 27 | 5 | 4 | 4 4 18 | 7 | 9 | 6 | 5 12.7 | 19 48 | 3 | 7 | | | | | | | | | |
| 36 | 1 | 1 11 | 11 | 5 | 3 | 1 | 3 12 | 51 | 26.0 | 4 | 1 8.6 | 14 32 | 4 | 5 | 2 9.8 | 16 14 | 8 | 6 | 2 1 17 | 56 | 8 | 0.2 | 8 | 3 3 19 | 38 | 6 | 9 | | | | | | | | |
| 37 | 10.8 | 5.7 | 10 52 | 8 | 5 | 11.9 | 6.9 | 12 34 | 2 | 6 | 12.9 | 2 14 | 16 | 6 | 7 | 13.9 | 4 15 | 59 | 29.1 | 8 | 0 10.7 | 17 43 | 5 | Π | 0 11.9 | 19 27 | 9 | 1.1 | | | | | | | |
| 38 | 6 | 2 10 | 32 | 25.0 | 7 | 7 | 5 12 | 15 | 5 | 8 | 7 7.7 | 14 0 | 9 | 9 | 7 0 15 | 44 | 4 29.0 | 14.8 | 3 17 | 30 | 8 0.2 | 15.8 | 5 19 | 16 | 2.2 | 3 | | | | | | | | | |
| 39 | 4 | 4.8 | 10 11 | 3 | 9 | 4 | 0 11 | 56 | 8 27.0 | 5 | 3 13 | 42 | 28.2 | 28.1 | 5 8.6 | 15 28 | 7 | 3 | 5 9.8 | 17 16 | 1.1 | 4 | 6 | 1 19 | 4 | 5 | 5 | | | | | | | | |
| 40 | 2 | 3 9 | 48 | 5 26.1 | 2 | 5.6 | 11 35 | 27.0 | 2 | 2 | 6.8 | 13 23 | 5 | 3 | 2 1 15 | 11 | 8 | 5 | 3 4 17 | 1 | 4 | 6 | 3 10.7 | 18 51 | 8 | 7 | | | | | | | | | |
| 41 | 9.9 | 3.8 | 9 24 | 8 | 3 | 10.9 | 1 11 | 13 | 3 | 4 | 0 3 13 | 3 | 9 | 5 | 0 7.6 | 14 53 | 0.3 | 7 | 0 8.9 | 16 45 | 8 | 8 | 1 2 18 | 37 | 3.2 | 2.0 | | | | | | | | | |
| 42 | 6 | 3 8 | 58 | 26.1 | 5 | 7 | 4.6 | 10 49 | 6 | 6 | 11.7 | 5.8 | 12 41 | 29.2 | 7 12.7 | 1 14 | 34 | 7 | Π | 13.8 | 4 16 | 28 | 2.2 | 1.1 | 14.8 | 9.7 | 18 22 | 6 | 2 | | | | | | |
| 43 | 4 | 2.8 | 8 30 | 4 | 7 | 4 | 0 10 | 23 | 9 | 9 | 4 | 3 12 | 18 | 6 29.0 | 5 6.6 | 14 13 | 1.1 | 0.2 | 5 7.9 | 16 9 | 6 | 4 | 6 | 2 18 | 6 | 4.0 | 5 | | | | | | | | |
| 44 | 1 | 2 8 | 0 | 7 27.0 | 1 | 3.5 | 9 55 | 28.3 | 28.1 | 1 | 4.7 | 11 52 | 8 | 3 | 2 0 13 | 50 | 5 | 4 | 2 3 15 | 49 | 3.0 | 6 | 3 8.6 | 17 49 | 5 | 7 | | | | | | | | | |
| 45 | 8.8 | 1.6 | 7 27 | 27.1 | 2 | 9.8 | 2.9 | 9 26 | 7 | 4 | 10.8 | 1 11 | 25 | 0.4 | 6 11.9 | 5.4 | 13 26 | 9 | 7 | 12.9 | 6.7 | 15 27 | 4 | 9 | 0 0 17 | 30 | 9 | 3.0 | | | | | | | |
| 46 | 5 | 0 6 | 52 | 5 | 5 | 5 | 2 8 | 53 | 29.1 | 7 | 5 3.5 | 10 55 | 7 | 9 | 6 4.8 | 12 59 | 2.3 | 1.0 | 6 1 15 | 4 | 8 | 2.2 | 13.7 | 7.4 | 17 9 | 5.3 | 3 | | | | | | | | |
| 47 | 2 | 0.3 | 6 14 | 9 | 8 | 2 | 1.6 | 8 17 | 5 29.0 | 2 | 2.8 | 10 23 | 1.1 | 0.2 | 3 1 12 | 29 | 7 | 3 | 3 5.5 | 14 38 | 4.2 | 4 | 3 6.8 | 16 47 | 7 | 6 | | | | | | | | | |
| 48 | 7.8 | 29.6 | 5 32 | 28.3 | 28.2 | 8.9 | 0.9 | 7 38 | 9 | 3 | 9.9 | 1 9 | 47 | 5 | 5 10.9 | 3.4 | 11 57 | 3.1 | 6 | 0 4.8 | 14 9 | 7 | 7 | 0 1 16 | 22 | 6.2 | 9 | | | | | | | | |
| 49 | 5 | 28.9 | 4 45 | 7 | 5 | 5 | 1 6 | 55 | 0.3 | 6 | 5 1.4 | 9 8 | 2.0 | 8 | 6 6 2.7 | 11 22 | 6 | 2.0 | 11.6 | 1 13 | 37 | 5.2 | 3.1 | 12.7 | 5.4 | 15 55 | 7 | 4.3 | | | | | | | |
| 50 | 1 | 1 3 | 54 | 29.2 | 8 | 1 29.4 | 6 8 | 8 | Π | 2 0.7 | 8 24 | 5 | 1.2 | 2 2 0 | 10 42 | 4.1 | 3 | 2 3.4 | 13 2 | 7 | 4 | 3 4.7 | 15 24 | 7.3 | 6 | | | | | | | | | | |
| 51 | 6.7 | 27.3 | 2 57 | 7 29.2 | 7.8 | 28.6 | 5 15 | 1.3 | 0.4 | 8.8 | 29.9 | 7 35 | 3.1 | 5 | 9.8 | 1.2 | 9 58 | 7 | 7 | 10.9 | 2 6 | 12 23 | 6.3 | 8 | 11.9 | 3 9 | 14 50 | 9 | 5.0 | | | | | | |
| 52 | 3 | 26.4 | 1 53 | 0.3 | 5 | 4 | 27.7 | 4 15 | 9 | 8 | 4 0 | 6 | 41 | 7 | 9 | 4 0.3 | 9 9 | 5.3 | 3.1 | 5 1.7 | 11 30 | 7 0 | 4.2 | 5 0 | 14 12 | 8 6 | 4 | | | | | | | | |
| 53 | 5.9 | 25.4 | 0 42 | 9 | 9 | 6.9 | 26.8 | 3 8 | 2.6 | 1.2 | 7.9 | 28.1 | 5 39 | 4.4 | 2.3 | 0 29.4 | 8 13 | 6.0 | 5 | 0 0.7 | 10 48 | 7 | 6 | 1 2.1 | 13 28 | 9.4 | 8 | | | | | | | | |
| 54 | 4 | 24.4 | 29 20 | 1.6 | 0.3 | 4 | 25.8 | 1 52 | 3.3 | 6 | 4 27.1 | 4 28 | 5.1 | 8 | 8.5 | 28.3 | 7 8 | 8 | 9 | 9.5 | 29.7 | 9 51 | 8.5 | 5.1 | 10.6 | 1.1 | 12 37 | 10.2 | 6.2 | | | | | | |
| 55 | 4.9 | 23.3 | 27 47 | 2.3 | 8 | 5.9 | 24.6 | 0 25 | 4.1 | 2.0 | 6.9 | 25.9 | 3 7 | 9 | 3.3 | 0 27.2 | 5 54 | 7.6 | 4.4 | 0 28.6 | 8 44 | 9 4 | 6 | 0 0.0 | 11 38 | 11.1 | 7 | | | | | | | | |
| 56 | 3 | 22.0 | 26 0 | 3.1 | 1.3 | 3 | 23.3 | 28 44 | 5.0 | 5 | 4 24.6 | 1 33 | 6.8 | 9 | 7.4 | 26.0 | 4 27 | 8.5 | 9 | 8.4 | 27.4 | 7 26 | 10.4 | 6.2 | 9.5 | 28.8 | 10 30 | 12.1 | 7.2 | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 17 33 51 } $\frac{1}{2}$ ARC 263° 27'.8 } 24° | | | | | | H. M. S. 17 38 13 } $\frac{1}{2}$ 25° 264° 33'.1 } | | | | | | H. M. S. 17 42 34 } $\frac{1}{2}$ 26° 265° 38'.5 } | | | | | | H. M. S. 17 46 55 } $\frac{1}{2}$ 27° 266° 43'.8 } | | | | | | H. M. S. 17 51 17 } $\frac{1}{2}$ 28° 267° 49'.2 } | | | | | | H. M. S. 17 55 38 } $\frac{1}{2}$ 29° 268° 54'.6 } | | | | | |
|--|------|------|-------|------|------|--|------|-------|------|------|--------|--|-------|------|-----|--------|-------|--|------|------|--------|------|-------|--|------|--------|-------|-------|------|--|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ♊ | ♋ | ♌ | ♍ | ♎ | ♊ | ♋ | ♌ | ♍ | ♎ | ♊ | ♋ | ♌ | ♍ | ♎ | ♊ | ♋ | ♌ | ♍ | ♎ | ♊ | ♋ | ♌ | ♍ | ♎ | ♊ | ♋ | ♌ | ♍ | ♎ | ♊ | ♋ | ♌ | ♍ | ♎ |
| 22 | 18.8 | 16.6 | 21 23 | 28.5 | 28.5 | 19.8 | 17.8 | 22 49 | 29.8 | 29.6 | 20.8 | 19.0 | 24 15 | 1.0 | 0.7 | 21.9 | 20.2 | 25 41 | 2.3 | 1.7 | 22.9 | 21.5 | 27 7 | 3.6 | 2.8 | 24.0 | 22.7 | 28 33 | 4.8 | 3.9 | | | | | |
| 23 | 6 | 3 21 | 17 | 7 | 6 | 6 | 5 22 | 44 | 9 | 7 | 7 18.8 | 24 11 | 2 | 8 | 7 | 0 25 | 38 | 5 | 9 | 8 | 2 27 | 5 | 8 | 3.0 | 23.8 | 5 28 | 33 | 5.0 | 4.0 | | | | | | |
| 24 | 4 | 1 21 | 11 | 9 | 8 | 5 | 3 22 | 39 | 0.1 | 9 | 5 | 5 24 | 7 | 4 | 1.0 | 6 19.8 | 25 35 | 7 | 2.0 | 6 | 0 27 | 3 | 4.0 | 1 | 7 | 2 28 | 32 | 2 | 2 | | | | | | |
| 25 | 3 | 15.8 | 21 5 | 29.1 | 9 | 3 | 0 22 | 34 | 3 | Π | 4 | 3 24 | 3 | 6 | 1 | 4 | 5 25 | 32 | 9 | 2 | 5 20.7 | 27 1 | 2 | 3 | 5 | 0 28 | 31 | 5 | 3 | | | | | | |
| 26 | 1 | 5 20 | 59 | 3 | 29.1 | 2 | 16.8 | 22 29 | 5 | 0.2 | 2 | 0 23 | 59 | 8 | 3 | 3 | 3 25 | 29 | 3.1 | 3 | 22.3 | 5 26 | 59 | 4 | 4 | 4 21.8 | 28 29 | 7 | 5 | | | | | | |
| 27 | 17.9 | 3 20 | 53 | 5 | 3 | 0 | 5 22 | 24 | 7 | 3 | 0 | 17.8 | 23 55 | 2.1 | 4 | 1 | 0 25 | 26 | 4 | 5 | 2 | 2 26 | 57 | 6 | 3.6 | 2 | 5 28 | 28 | 9 | 7 | | | | | |
| 28 | 8 | 0 20 | 46 | 7 | 4 | 18.8 | 2 22 | 18 | 1.0 | 5 | 19.9 | 5 23 | 50 | 3 | 1.6 | 20.9 | 18.7 | 25 22 | 6 | 7 | 0 | 0 26 | 55 | 9 | 7 | 0 | 3 28 | 27 | 6.2 | 8 | | | | | |
| 29 | 6 | 14.7 | 20 39 | 9 | 6 | 7 | 15.9 | 22 12 | 2 | 7 | 7 | 2 23 | 45 | 5 | 7 | 8 | 5 25 | 19 | 8 | 8 | 21.8 | 19.7 | 26 52 | 5.1 | 9 | 22.9 | 0 28 | 26 | 4 | 5.0 | | | | | |
| 30 | 4 | 4 20 | 31 | 0.1 | 7 | 5 | 6 22 | 6 | 4 | 8 | 5 | 16.9 | 23 40 | 7 | 9 | 6 | 2 25 | 15 | 4.1 | 3.0 | 6 | 4 26 | 50 | 4 | 4.1 | 7 | 20.7 | 28 25 | 7 | 1 | | | | | |
| 31 | 2 | 1 20 | 24 | 3 | 9 | 3 | 3 21 | 59 | 6 | 1.0 | 3 | 6 23 | 35 | 3.0 | 2.1 | 4 | 17.9 | 25 11 | 3 | 2 | 5 | 2 26 | 47 | 6 | 3 | 5 | 5 28 | 23 | 9 | 3 | | | | | |
| 32 | 1 | 13.8 | 20 16 | 5 | 0.1 | 1 | 0 21 | 52 | 9 | 2 | 2 | 3 23 | 29 | 2 | 3 | 2 | 6 25 | 7 | 5 | 3 | 3 | 18.9 | 26 44 | 9 | 4 | 4 | 2 28 | 22 | 7.2 | 5 | | | | | |
| 33 | 16.9 | 4 20 | 7 | 8 | 3 | 17.9 | 14.7 | 21 45 | 2.1 | 4 | 0 | 0 23 | 23 | 5 | 4 | 0 | 3 25 | 2 | 8 | 5 | 1 | 6 26 | 41 | 6.1 | 6 | 2 | 19.9 | 28 21 | 5 | 7 | | | | | |
| 34 | 7 | 1 19 | 58 | 1.0 | 5 | 7 | 4 21 | 38 | 4 | 5 | 18.8 | 15.6 | 23 17 | 7 | 6 | 19.8 | 16.9 | 24 58 | 5.1 | 7 | 20.9 | 2 26 | 38 | 4 | 8 | 0 | 6 28 | 19 | 8 | 9 | | | | | |
| 35 | 5 | 12.7 | 19 48 | 3 | 7 | 5 | 0 21 | 30 | 7 | 7 | 6 | 3 23 | 11 | 4.0 | 8 | 6 | 6 24 | 53 | 4 | 9 | 7 | 17.9 | 26 35 | 7 | 5.0 | 21.8 | 2 28 | 18 | 8.1 | 6.1 | | | | | |
| 36 | 3 | 3 19 | 38 | 6 | 9 | 3 | 13.6 | 21 21 | 3.0 | 9 | 4 | 14.9 | 23 4 | 3 | 3.0 | 4 | 2 24 | 48 | 7 | 4.1 | 5 | 5 26 | 32 | 7.1 | 2 | 6 | 18.9 | 28 16 | 4 | 3 | | | | | |
| 37 | 0 | 11.9 | 19 27 | 9 | 1.1 | 1 | 2 21 | 12 | 3 | 2.1 | 1 | 5 22 | 57 | 7 | 2 | 2 | 15.9 | 24 43 | 6.0 | 3 | 3 | 2 26 | 28 | 4 | 4 | 3 | 5 28 | 14 | 8 | 5 | | | | | |
| 38 | 15.8 | 5 19 | 16 | 2.2 | 3 | 16.9 | 12.8 | 21 2 | 6 | 4 | 17.9 | 1 22 | 49 | 5.0 | 5 | 0 | 5 24 | 37 | 4 | 5 | 1 | 16.8 | 26 24 | 8 | 6 | 1 | 1 28 | 12 | 9.1 | 7 | | | | | |
| 39 | 6 | 1 19 | 4 | 5 | 5 | 6 | 4 20 | 52 | 9 | 6 | 7 | 13.7 | 22 41 | 4 | 7 | 18.8 | 1 24 | 31 | 7 | 8 | 19.8 | 4 26 | 20 | 8.1 | 9 | 20.9 | 17.7 | 28 10 | 5 | 9 | | | | | |
| 40 | 3 | 10.7 | 18 51 | 8 | 7 | 4 | 0 20 | 41 | 4.3 | 8 | 4 | 3 22 | 33 | 7 | 9 | 5 | 14.6 | 24 24 | 7.1 | 5.0 | 6 | 0 26 | 16 | 5 | 6.1 | 6 | 3 28 | 8 | 9 | 7.2 | | | | | |
| 41 | 1 | 2 18 | 37 | 3.2 | 2.0 | 1 | 11.5 | 20 30 | 7 | 3.1 | 2 | 12.8 | 22 23 | 6.1 | 4.2 | 3 | 2 24 | 17 | 5 | 2 | 3 | 15.5 | 26 11 | 9 | 3 | 4 | 16.9 | 28 6 | 10.3 | 4 | | | | | |
| 42 | 14.8 | 9.7 | 18 22 | 6 | 2 | 15.9 | 0 20 | 17 | 5.1 | 3 | 16.9 | 4 22 | 13 | 5 | 4 | 0 | 13.7 | 24 10 | 8.0 | 5 | 1 | 1 26 | 6 | 9.4 | 6 | 2 | 4 28 | 3 | 8 | 7 | | | | | |
| 43 | 6 | 2 18 | 6 | 4.0 | 5 | 6 | 10.5 | 20 4 | 5 | 6 | 7 | 11.9 | 22 2 | 7.0 | 7 | 17.7 | 2 24 | 1 | 4 | 8 | 18.8 | 14.6 | 26 1 | 8 | 9 | 19.9 | 0 28 | 0 | 11.2 | 8.0 | | | | | |
| 44 | 3 | 8.6 | 17 49 | 5 | 7 | 3 | 9.9 | 19 49 | 6.0 | 8 | 4 | 3 21 | 51 | 4 | 9 | 5 | 12.7 | 23 52 | 9 | 6.0 | 5 | 1 25 | 55 | 10.3 | 7.1 | 6 | 15.5 | 27 57 | 7 | 2 | | | | | |
| 45 | 0 | 0 17 | 30 | 9 | 3.0 | 0 | 4 19 | 33 | 4 | 4.1 | 1 | 10.8 | 21 38 | 9 | 5.2 | 2 | 1 23 | 43 | 9.4 | 3 | 2 | 13.5 | 25 48 | 8 | 4 | 3 | 14.9 | 27 54 | 12.2 | 5 | | | | | |
| 46 | 13.7 | 7.4 | 17 9 | 5.3 | 3 | 14.7 | 8.8 | 19 16 | 8 | 4 | 15.8 | 2 21 | 24 | 8.3 | 5 | 16.9 | 11.6 | 23 32 | 9 | 6 | 17.9 | 12.9 | 25 41 | 11.3 | 7 | 0 | 4 27 | 51 | 7 | 8 | | | | | |
| 47 | 3 | 6.8 | 16 47 | 7 | 6 | 4 | 2 18 | 57 | 7.3 | 7 | 5 | 9.6 | 21 9 | 8 | 8 | 5 | 0 23 | 21 | 10.4 | 9 | 6 | 3 25 | 34 | 8 | 8.0 | 18.7 | 13.9 | 27 47 | 13.2 | 9.1 | | | | | |
| 48 | 0 | 1 16 | 22 | 6.2 | 9 | 1 | 7.5 | 18 37 | 8 | 5.0 | 1 | 8.9 | 20 52 | 9.3 | 6.1 | 2 | 10.4 | 23 8 | 9 | 7.2 | 3 | 11.7 | 25 25 | 12.4 | 3 | 3 | 3 27 | 42 | 8 | 4 | | | | | |
| 49 | 12.7 | 5.4 | 15 55 | 7 | 4.3 | 13.7 | 6.8 | 18 13 | 8.3 | 3 | 14.8 | 2 20 | 33 | 9 | 4 | 15.8 | 9.7 | 22 54 | 11.5 | 5 | 16.9 | 1 25 | 16 | 13.0 | 6 | 0 | 12.6 | 27 38 | 14.4 | 7 | | | | | |
| 50 | 3 | 4.7 | 15 24 | 7.3 | 6 | 3 | 1 17 | 48 | 9 | 7 | 4 | 7.5 | 20 12 | 10.5 | 8 | 5 | 0 22 | 38 | 12.1 | 9 | 6 | 10.4 | 25 5 | 6 | 9.0 | 17.6 | 11.9 | 27 33 | 15.1 | 10.1 | | | | | |
| 51 | 11.9 | 3.9 | 14 50 | 9 | 5.0 | 0 | 5.3 | 17 19 | 9.5 | 6.1 | 0 | 6.7 | 19 49 | 11.2 | 7.2 | 1 | 8.2 | 22 21 | 8 | 8.3 | 2 | 9.6 | 24 53 | 14.3 | 4 | 2 | 2 27 | 27 | 8 | 5 | | | | | |
| 52 | 5 | 0 14 | 12 | 8.6 | 4 | 12.6 | 4.4 | 16 46 | 10.2 | 5 | 13.6 | 5.9 | 19 23 | 9 | 6 | 14.7 | 7.4 | 22 1 | 13.5 | 7 | 15.8 | 8.8 | 24 40 | 15.1 | 8 | 16.8 | 10.4 | 27 20 | 16.6 | 9 | | | | | |
| 53 | 1 | 2.1 | 13 28 | 9.4 | 8 | 1 | 3.5 | 16 9 | 11.0 | 9 | 2 | 0 18 | 52 | 12.7 | 8.0 | 2 | 6.5 | 21 38 | 14.3 | 9.1 | 3 | 7.9 | 24 25 | 9 | 10.2 | 4 | 9.5 | 27 12 | 17.5 | 11.3 | | | | | |
| 54 | 10.6 | 1.1 | 12 37 | 10.2 | 6.2 | 11.6 | 2.5 | 15 26 | 9 | 7.4 | 12.7 | 4.0 | 18 18 | 13.6 | 5 | 13.7 | 5.5 | 21 12 | 15.2 | 6 | 14.8 | 6.9 | 24 7 | 16.8 | 7 | 15.9 | 8.5 | 27 3 | 18.4 | 8 | | | | | |
| 55 | 0 | 0.0 | 11 38 | 11.1 | 7 | 1 | 1.4 | 14 36 | 12.8 | 9 | 2 | 2.9 | 17 37 | 14.5 | 9.0 | 2 | 4.4 | 20 41 | 16.1 | 10.1 | 3 | 5.9 | 23 46 | 17.8 | 11.2 | 4 | 7.4 | 26 53 | 19.4 | 12.3 | | | | | |
| 56 | 9.5 | 28.8 | 10 30 | 12.1 | 7.2 | 10.5 | 0.2 | 13 38 | 13.8 | 8.5 | 11.6 | 1.7 | 16 49 | 15.5 | 6 | 12.7 | 3.2 | 20 4 | 17.1 | 7 | 13.7 | 4.7 | 23 21 | 18.9 | 8 | 14.8 | 6.2 | 26 40 | 20.5 | 9 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 18 0 0 } $\frac{1}{2}$ ARC 270° 0' 0 } 0° | | | | | H. M. S. 18 4 22 } $\frac{1}{2}$ 1° 271° 5' 4 } | | | | | H. M. S. 18 8 43 } $\frac{1}{2}$ 2° 272° 10' 8 } | | | | | H. M. S. 18 13 5 } $\frac{1}{2}$ 3° 273° 16' 2 } | | | | | H. M. S. 18 17 26 } $\frac{1}{2}$ 4° 274° 21' 5 } | | | | | H. M. S. 18 21 47 } $\frac{1}{2}$ 5° 275° 26' 9 } | | | | | | | |
|--|---------------|---------------|---------------|---------------|---|---------------|---------------|---------------|---------------|--|---------------|---------------|---------------|---------------|--|---------------|---------------|---------------|---------------|---|---------------|---------------|---------------|---------------|---|---------------|---------------|---------------|---------------|------|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | | | |
| 22 | 25.0 | 23.9 | 0 0 | 6.1 | 5.0 | 26.1 | 25.2 | 1 27 | 7.3 | 6.0 | 27.2 | 26.4 | 2 53 | 8.5 | 7.1 | 28.3 | 27.7 | 4 19 | 9.8 | 8.1 | 29.3 | 29.0 | 5 45 | 11.0 | 9.2 | 0.4 | 0.2 | 7 11 | 12 2 | 10.2 | | |
| 23 | 24.9 | 7 0 0 | 3 | 1 | 0 | 0 | 1 27 | 5 | 2 | 0 | 2 2 55 | 8 | 2 | 1 | 5 4 22 | 10.0 | 3 | 2 28.8 | 5 49 | 2 | 3 | 3 | 1 7 16 | 5 | 4 | | | | | | | |
| 24 | 7 | 5 0 0 | 5 | 3 | 25.8 | 24.8 | 1 28 | 8 | 3 | 26.9 | 0 | 2 57 | 9.0 | 4 | 0 | 3 4 25 | 2 | 4 | 0 | 6 5 53 | 5 | 5 | 1 29.9 | 7 21 | 7 | 5 | | | | | | |
| 25 | 6 | 3 0 0 | 7 | 4 | 7 | 5 1 29 | 8.0 | 5 | 7 | 25.8 | 2 59 | 3 | 5 | 27.8 | 1 4 28 | 5 | 6 | 28.9 | 4 5 57 | 7 | 6 | 0 | 7 7 26 | 13.0 | 7 | | | | | | | |
| 26 | 4 | 0 0 0 | 7.0 | 5.6 | 5 | 3 1 31 | 2 | 6 | 6 | 6 3 1 | 5 | 7 | 7 | 26.9 | 4 31 | 7 | 7 | 7 | 2 6 1 12.0 | 8 | 29.8 | 5 | 7 31 | 2 | 8 | | | | | | | |
| 27 | 3 22.8 | 0 0 | 2 | 7 | 3 | 1 1 32 | 5 | 8 | 4 | 4 3 3 | 8 | 8 | 5 | 6 4 34 | 11.0 | 9 | 6 27.9 | 6 5 | 2 | 10.0 | 7 | 3 | 7 36 | 5 | 11.0 | | | | | | | |
| 28 | 1 | 5 0 0 | 5 | 9 | 2 23.8 | 1 33 | 7 | 7.0 | 3 | 1 3 5 | 10.0 | 8.0 | 3 | 4 4 38 | 3 | 9.1 | 4 | 7 6 10 | 5 | 1 | 5 | 0 7 42 | 8 | 2 | | | | | | | | |
| 29 | 23.9 | 3 0 0 | 7 | 6.1 | 0 | 6 1 34 | 9.0 | 1 | 1 24.9 | 3 8 | 3 | 2 | 2 | 2 4 41 | 5 | 2 | 3 | 5 6 15 | 8 | 3 | 3 28.8 | 7 48 | 14.1 | 3 | | | | | | | | |
| 30 | 8 | 0 0 0 | 8.0 | 2 | 24.9 | 3 1 35 | 3 | 3 | 25.9 | 6 3 10 | 6 | 4 | 0 | 25.9 | 4 45 | 8 | 4 | 1 | 3 6 20 | 13.1 | 5 | 2 | 6 7 54 | 4 | 5 | | | | | | | |
| 31 | 6 21.8 | 0 0 | 2 | 4 | 7 | 1 1 37 | 5 | 5 | 7 | 4 3 13 | 8 | 5 | 26.8 | 7 4 49 | 12.1 | 6 | 27.9 | 0 6 25 | 4 | 7 | 0 | 4 8 1 | 7 | 7 | | | | | | | | |
| 32 | 4 | 5 0 0 | 5 | 6 | 5 22.8 | 1 38 | 8 | 6 | 6 | 1 3 16 | 11.1 | 7 | 7 | 5 4 53 | 4 | 8 | 7 26.8 | 6 31 | 7 | 8 | 28.8 | 1 8 8 | 15.0 | 9 | | | | | | | | |
| 33 | 2 | 2 0 0 | 8 | 8 | 3 | 5 1 39 | 10.1 | 8 | 4 23.9 | 3 19 | 4 | 9 | 5 | 2 4 58 | 7 | 10.0 | 6 | 5 6 37 | 14.0 | 11.0 | 6 27.9 | 8 15 | 3 | 12.1 | | | | | | | | |
| 34 | 0 20.9 | 0 0 | 9.1 | 7.0 | 1 | 2 1 41 | 4 | 8.0 | 2 | 6 3 22 | 8 | 9.1 | 3 24.9 | 5 2 13.1 | 2 | 4 | 3 6 43 | 4 | 2 | 5 | 6 8 22 | 6 | 3 | | | | | | | | | |
| 35 | 22.8 | 6 0 0 | 4 | 2 | 23.9 | 2 19 | 1 42 | 8 | 2 | 0 | 3 3 25 | 12.1 | 3 | 1 | 6 5 7 | 4 | 4 | 2 | 0 6 49 | 7 | 4 | 3 | 3 8 30 | 16.0 | 5 | | | | | | | |
| 36 | 6 | 2 0 0 | 8 | 4 | 7 | 6 1 44 | 11.1 | 4 | 24.8 | 22.9 | 3 28 | 5 | 5 | 25.9 | 3 5 12 | 8 | 6 | 0 25.7 | 6 56 | 15.1 | 6 | 1 | 0 8 39 | 4 | 7 | | | | | | | |
| 37 | 4 19.9 | 0 0 | 10.1 | 6 | 5 | 2 1 46 | 5 | 7 | 6 | 6 3 32 | 8 | 7 | 7 | 0 5 17 | 14.1 | 8 | 26.8 | 3 7 3 | 5 | 9 | 27.9 | 26.7 | 8 48 | 8 | 9 | | | | | | | |
| 38 | 2 | 5 0 0 | 5 | 8 | 3 20.9 | 1 48 | 9 | 9 | 4 | 2 3 36 | 13.2 | 9 | 5 | 23.6 | 5 23 | 5 11.0 | 5 | 0 7 11 | 9 | 12.1 | 6 | 4 8 58 | 17.2 | 13.1 | | | | | | | | |
| 39 | 0 | 1 0 0 | 9 | 8.0 | 1 | 5 1 50 | 12.3 | 9.1 | 1 21.9 | 3 40 | 6 | 10.2 | 2 | 3 5 29 | 9 | 2 | 3 24.6 | 7 19 | 16.3 | 3 | 4 | 1 9 8 | 6 | 4 | | | | | | | | |
| 40 | 21.7 | 18.7 | 0 0 | 11.3 | 3 | 22.8 | 1 1 52 | 7 | 4 | 23.9 | 5 3 44 | 14.0 | 4 | 0 22.9 | 5 36 | 15.4 | 5 | 1 | 3 7 27 | 7 | 6 | 2 25.7 | 9 19 | 18.0 | 6 | | | | | | | |
| 41 | 5 | 3 0 0 | 7 | 5 | 6 19.7 | 1 54 | 13.1 | 6 | 7 | 1 3 49 | 5 | 7 | 24.8 | 5 5 43 | 8 | 7 | 25.8 | 23.9 | 7 37 | 17.2 | 8 | 26.9 | 3 9 30 | 5 | 9 | | | | | | | |
| 42 | 2 17.8 | 0 0 | 12.2 | 8 | 3 | 2 1 57 | 6 | 8 | 4 20.6 | 3 54 | 9 | 9 | 5 | 0 5 50 | 16.3 | 12.0 | 6 | 5 7 47 | 6 | 13.1 | 7 24.9 | 9 43 | 19.0 | 14.1 | | | | | | | | |
| 43 | 0 | 4 0 0 | 6 | 9.0 | 0 18.8 | 2 0 14.0 | 10.1 | 1 | 2 | 3 59 | 15.4 | 11.2 | 2 21.6 | 5 59 | 8 | 3 | 3 | 0 7 58 | 18.1 | 3 | 4 | 5 9 56 | 5 | 4 | | | | | | | | |
| 44 | 20.7 | 16.9 | 0 0 | 13.1 | 3 | 21.8 | 3 2 3 | 5 | 4 | 22.9 | 19.7 | 4 5 | 9 | 5 | 0 | 1 6 8 | 17.3 | 5 | 1 22.6 | 8 9 | 7 | 6 | 2 | 0 10 11 | 20.1 | 7 | | | | | | |
| 45 | 4 | 3 0 0 | 7 | 6 | 5 17.8 | 2 6 15.1 | 7 | 6 | 2 | 4 12 | 16.5 | 8 | 23.7 | 20.6 | 6 17 | 9 | 8 | 24.8 | 1 8 22 | 19.2 | 9 | 25.9 | 23.6 | 10 27 | 6 | 15.0 | | | | | | |
| 46 | 1 15.8 | 0 0 | 14.2 | 9 | 2 | 3 2 9 | 6 | 11.0 | 3 18.7 | 4 19 | 17.1 | 12.1 | 4 | 1 | 6 28 | 18.4 | 13.1 | 5 21.7 | 8 36 | 8 | 14.2 | 6 | 2 10 44 | 21.2 | 3 | | | | | | | |
| 47 | 19.8 | 3 0 0 | 7 | 10.2 | 20.9 | 16.8 | 2 13 | 16.1 | 3 | 0 | 2 4 26 | 7 | 4 | 1 19.6 | 6 39 | 19.0 | 5 | 2 | 2 8 51 | 20.4 | 5 | 3 22.7 | 11 3 | 8 | 6 | | | | | | | |
| 48 | 4 14.7 | 0 0 | 15.3 | 6 | 6 | 2 2 18 | 7 | 7 | 21.7 | 17.6 | 4 35 | 18.3 | 7 | 22.8 | 1 6 52 | 6 | 8 | 23.9 | 20.7 | 9 8 | 21.1 | 9 | 0 | 2 11 23 | 22.5 | 9 | | | | | | |
| 49 | 1 | 0 0 0 | 16.0 | 9 | 3 | 15.6 | 2 22 | 17.4 | 12.0 | 4 | 0 4 41 | 9 | 13.1 | 5 18.5 | 7 6 | 20.3 | 14.2 | 6 | 1 9 27 | 8 | 15.2 | 24 7 | 21.7 | 11 47 | 23.2 | 16.3 | | | | | | |
| 50 | 18.7 | 13.4 | 0 0 | 6 11.3 | 19.9 | 14.9 | 2 27 | 18.1 | 4 | 0 16.4 | 4 55 | 19.6 | 4 | 1 17.9 | 7 22 | 21.0 | 5 | 2 19.5 | 9 48 | 22.5 | 6 | 3 | 1 12 12 | 9 | 7 | | | | | | | |
| 51 | 3 12.7 | 0 0 | 17.3 | 7 | 5 | 2 2 33 | 8 | 8 | 20.6 | 15.7 | 5 7 | 20.4 | 8 | 21.7 | 2 7 39 | 8 | 9 | 22.8 | 18.8 | 10 11 | 23 3 | 16.0 | 23.9 | 20.5 | 12 41 | 24.7 | 17.0 | | | | | |
| 52 | 17.9 | 11.9 | 0 0 | 18.1 | 12.1 | 1 | 13.4 | 2 40 | 19.6 | 13.2 | 2 | 14.9 | 5 20 | 21.2 | 14.2 | 3 | 16.5 | 7 59 | 22.6 | 15.3 | 4 | 1 10 37 | 24.1 | 4 | 5 19.8 | 13 14 | 25.6 | 4 | | | | |
| 53 | 5 | 0 0 0 | 19.0 | 5 | 18.7 | 12.5 | 2 48 | 20.5 | 6 | 19.8 | 1 | 5 35 | 22.1 | 7 | 20.9 | 15.7 | 8 22 | 23 5 | 8 | 0 17.3 | 11 8 | 25.0 | 8 | 1 | 0 13 51 | 26.5 | 9 | | | | | |
| 54 | 0 10.0 | 0 0 | 20.0 | 13.0 | 2 | 11.6 | 2 57 | 21.5 | 14.1 | 3 | 13.2 | 5 53 | 23.1 | 15.2 | 4 | 14.8 | 8 48 | 24 5 | 16.3 | 21.5 | 16.4 | 11 42 | 26.0 | 17 3 | 22 6 | 18.1 | 14 34 | 27.5 | 18.4 | | | |
| 55 | 16.5 | 9.0 | 0 0 | 21.0 | 5 | 17.7 | 10.6 | 3 7 | 22.6 | 6 | 18.8 | 12.2 | 6 14 | 24.1 | 7 | 19.9 | 13.9 | 9 19 | 25.6 | 8 | 0 15.5 | 12 23 | 27.1 | 8 | 1 17.2 | 15 24 | 28.6 | 9 | | | | |
| 56 | 15.9 | 7.9 | 0 0 | 22.1 | 14.1 | 1 | 9.5 | 3 20 | 23.8 | 15.2 | 2 | 11.1 | 6 39 | 25.3 | 16.3 | 3 | 12.9 | 9 56 | 26 5 | 17.3 | 20 4 | 14.5 | 13 11 | 28 3 | 18 4 | 21 5 | 16.2 | 16 22 | 29.8 | 19.5 | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 18 21 47 } W° ARC 275° 26'.9 } 5° | | | | | | H. M. S. 18 26 9 } $\text{W}^{\circ} 6^{\circ}$ 276° 32'.2 } $\text{W}^{\circ} 6^{\circ}$ | | | | | | H. M. S. 18 30 30 } $\text{W}^{\circ} 7^{\circ}$ 277° 37'.4 } $\text{W}^{\circ} 7^{\circ}$ | | | | | | H. M. S. 18 34 50 } $\text{W}^{\circ} 8^{\circ}$ 278° 42'.6 } $\text{W}^{\circ} 8^{\circ}$ | | | | | | H. M. S. 18 39 11 } $\text{W}^{\circ} 9^{\circ}$ 279° 47'.7 } $\text{W}^{\circ} 9^{\circ}$ | | | | | | H. M. S. 18 43 31 } $\text{W}^{\circ} 10^{\circ}$ 280° 52'.8 } $\text{W}^{\circ} 10^{\circ}$ | | | | | | |
|---|----------------------------|-------------------|----------|----------|-------|---|-------------------|----------|---------------|-------|----------------------------|--|----------|--------------|-------|----------------------------|-------------------|--|--------------|-------|----------------------------|-------------------|----------|--|-------|----------------------------|-------------------|----------|--------------|--|-----------|----------|----------|----------|-------|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | \approx | \times | γ | δ | Π | \approx | \times | γ | δ | Π | \approx | \times | γ | δ | Π | \approx | \times | γ | δ | Π | \approx | \times | γ | δ | Π | \approx | \times | γ | δ | Π | \approx | \times | γ | δ | Π | |
| 22 | 0.4 | 0.2 | 7 11 | 12.2 | 10.2 | 1.5 | 1.5 | 8 37 | 13.4 | 11.2 | 2.6 | 2.8 | 10 3 | 14.6 | 12.3 | 3.7 | 4.1 | 11 28 | 15.8 | 13.3 | 4.8 | 5.4 | 12 54 | 17.0 | 14.4 | 5.9 | 6.7 | 14 18 | 18.2 | 15.4 | | | | | | |
| 23 | 3 | 1 | 7 16 | 5 | 4 | 4 | 3 | 8 43 | 7 | 4 | 4 | 6 10 | 9 | 9 | 5 | 5 | 3.9 | 11 36 | 16.1 | 5 | 6 | 2 13 | 2 | 3 | 5 | 7 | 5 | 14 28 | 4 | 5 | | | | | | |
| 24 | 1 | \approx 29.9 | 7 21 | 7 | 5 | 2 | 1 | 8 49 | 9 | 6 | 3 | 4 10 | 16 | 15.1 | 6 | 4 | 8 11 | 43 | 3 | 6 | 5 | 1 13 | 10 | 5 | 7 | 6 | 4 | 14 37 | 7 | 7 | | | | | | |
| 25 | 0 | 7 | 7 26 | 13.0 | 7 | 1 | 0.9 | 8 55 | 14.2 | 7 | 1 | 3 10 | 23 | 4 | 8 | 2 | 6 11 | 51 | 6 | 8 | 3 | 4.9 | 13 19 | 8 | 8 | 4 | 2 | 14 47 | 19.0 | 8 | | | | | | |
| 26 | W° 29.8 | 5 | 7 31 | 2 | 8 | 0.9 | 7 | 9 1 | 5 | 9 | 0 | 1 10 | 30 | 7 | 9 | 1 | 4 12 | 0 | 9 | 14.0 | 2 | 7 13 | 29 | 18.1 | 15.0 | 5.3 | 0 | 14 57 | 3 | 16.0 | | | | | | |
| 27 | 7 | 3 | 7 36 | 5 | 11.0 | 7 | 5 | 9 7 | 7 | 12.1 | 1.8 | 1.9 | 10 38 | 16.0 | 13.1 | 2.9 | 2 12 | 8 | 17.2 | 1 | 0 | 5 13 | 38 | 4 | 2 | 1 | 5.9 | 15 8 | 6 | 2 | | | | | | |
| 28 | 5 | 0 | 7 42 | 8 | 2 | 6 | 3 | 9 14 | 15.0 | 2 | 7 | 7 10 | 46 | 3 | 3 | 8 | 0 12 | 17 | 5 | 3 | 3.9 | 4 13 | 48 | 7 | 3 | 0 | 7 15 | 19 | 9 | 4 | | | | | | |
| 29 | 3 | 28.8 | 7 48 | 14.1 | 3 | 4 | 1 | 9 21 | 3 | 4 | 5 | 5 10 | 54 | 5 | 4 | 6 | 2.8 | 12 27 | 8 | 5 | 7 | 2 13 | 59 | 19.0 | 5 | 4.8 | 5 15 | 30 | 20.2 | 5 | | | | | | |
| 30 | 2 | 6 | 7 54 | 4 | 5 | 3 | \approx 29.9 | 9 29 | 6 | 6 | 4 | 2 11 | 3 | 8 | 6 | 5 | 6 12 | 36 | 18.1 | 7 | 6 | 0 14 | 10 | 3 | 7 | 7 | 3 15 | 43 | 5 | 7 | | | | | | |
| 31 | 0 | 4 | 8 1 | 7 | 7 | 1 | 7 | 9 36 | 9 | 8 | 2 | 0 11 | 12 | 17.1 | 8 | 3 | 4 12 | 47 | 4 | 8 | 4 | 3.8 | 14 21 | 6 | 9 | 5 | 1 15 | 55 | 8 | 9 | | | | | | |
| 32 | 28.8 | 1 | 8 8 | 15.0 | 9 | W° 29.9 | 5 | 9 44 | 16.2 | 9 | 0 | 0.8 | 11 21 | 5 | 14.0 | 1 | 2 12 | 57 | 7 | 15.0 | 2 | 6 14 | 33 | 9 | 16.1 | 3 | 4.9 | 16 9 | 21.1 | 17.1 | | | | | | |
| 33 | 6 | 27.9 | 8 15 | 3 | 12.1 | 7 | 2 | 9 53 | 6 | 13.1 | 0.8 | 6 11 | 31 | 8 | 2 | 1.9 | 0 13 | 9 | 19.0 | 2 | 0 | 3 14 | 46 | 20.3 | 3 | 2 | 7 16 | 23 | 5 | 3 | | | | | | |
| 34 | 5 | 6 | 8 22 | 6 | 3 | 5 | 0 | 10 2 | 9 | 3 | 6 | 4 11 | 42 | 18.2 | 4 | 7 | 1.7 | 13 21 | 4 | 4 | 2.9 | 1 14 | 59 | 7 | 5 | 0 | 5 16 | 37 | 9 | 5 | | | | | | |
| 35 | 3 | 3 | 8 30 | 16.0 | 5 | 3 | 28.7 | 10 12 | 17.3 | 5 | 4 | 1 11 | 53 | 6 | 6 | 6 | 5 13 | 33 | 8 | 6 | 7 | 2.9 | 15 13 | 21.0 | 7 | 3.8 | 3 16 | 53 | 22.3 | 7 | | | | | | |
| 36 | 1 | 0 | 8 39 | 4 | 7 | 1 | 4 | 10 22 | 7 | 7 | 2 | \approx 29.8 | 12 4 | 9 | 8 | 4 | 2 13 | 46 | 20.2 | 8 | 5 | 6 15 | 28 | 4 | 9 | 6 | 0 17 | 9 | 7 | 9 | | | | | | |
| 37 | 27.9 | 26.7 | 8 48 | 8 | 9 | 28.9 | 1 | 10 33 | 18.1 | 14.0 | 0 | 5 12 | 17 | 19.3 | 15.0 | 2 | 0.9 | 14 1 | 6 | 16.1 | 3 | 4 15 | 44 | 8 | 17.1 | 4 | 3.8 | 17 26 | 23.1 | 18.1 | | | | | | |
| 38 | 6 | 4 | 8 58 | 17.2 | 13.1 | 7 | 27.8 | 10 44 | 5 | 2 | W° 29.8 | 2 12 | 30 | 7 | 2 | 0 | 6 14 | 16 | 21.0 | 3 | 1 | 1 16 | 0 | 22.3 | 3 | 2 | 5 17 | 45 | 5 | 3 | | | | | | |
| 39 | 4 | 1 | 9 8 | 6 | 4 | 5 | 5 | 10 56 | 9 | 4 | 6 | 28.9 | 12 44 | 20.2 | 5 | 0.7 | 3 14 | 32 | 4 | 5 | 1.9 | 1.8 | 16 18 | 7 | 5 | 0 | 2 18 | 4 | 24.0 | 6 | | | | | | |
| 40 | 2 | 25.7 | 9 19 | 18.0 | 6 | 3 | 2 11 | 9 19.3 | 7 | 4 | 6 12 | 59 | 6 | 7 | 5 | 0 14 | 49 | 9 | 7 | 7 | 5 16 | 37 | 23.2 | 8 | 2.8 | 0 18 | 25 | 4 | 8 | | | | | | | |
| 41 | 26.9 | 3 | 9 30 | 5 | 9 | 0 | 26.8 | 11 23 | 8 | 9 | 2 | 2 13 | 15 | 21.1 | 16.0 | 3 | \approx 29.7 | 15 | 7 | 22.4 | 17.0 | 5 | 1 16 | 57 | 7 | 18.0 | 6 | 2.7 | 18 47 | 9 | 19.1 | | | | | |
| 42 | 7 | 24.9 | 9 43 | 19.0 | 14.1 | 27.8 | 4 | 11 38 | 20.3 | 15.2 | 28.9 | 27.8 | 13 32 | 6 | 2 | 0 | 3 15 | 26 | 9 | 3 | 3 | 0.8 | 17 19 | 24.2 | 3 | 4 | 4 19 | 11 | 25.4 | 3 | | | | | | |
| 43 | 4 | 5 | 9 56 | 5 | 4 | 5 | 0 | 11 54 | 8 | 4 | 6 | 4 13 | 51 | 22.1 | 5 | W° 29.8 | 28.9 | 15 47 | 23.4 | 5 | 0 | 4 17 | 42 | 7 | 6 | 1 | 1 19 | 37 | 26.0 | 6 | | | | | | |
| 44 | 2 | 0 | 10 11 | 20.1 | 7 | 3 | 25.5 | 12 11 | 21.4 | 7 | 4 | 0 14 | 11 | 7 | 8 | 6 | 5 16 | 10 | 24.0 | 8 | 0.7 | 0 18 | 8 | 25.3 | 9 | 1.9 | 1.7 | 20 5 | 5 | 9 | | | | | | |
| 45 | 25.9 | 23.6 | 10 27 | 6 | 15.0 | 0 | 1 | 12 30 | 22.0 | 16.0 | 1 | 26.6 | 14 33 | 23.3 | 17.1 | 3 | 1 16 | 34 | 6 | 18.1 | 4 | \approx 29.6 | 18 35 | 9 | 19.2 | 6 | 3 20 | 34 | 27.1 | 20.2 | | | | | | |
| 46 | 6 | 2 | 10 44 | 21.2 | 3 | 26.7 | 24.7 | 12 51 | 6 | 3 | 27.8 | 2 14 | 56 | 9 | 4 | 0 | 27.7 | 17 | 1 | 25.2 | 4 | 1 | 3 19 | 5 | 26.5 | 5 | 3 | 0.9 | 21 7 | 8 | 5 | | | | | |
| 47 | 3 | 22.7 | 11 3 | 8 | 6 | 4 | 3 | 13 13 | 23.2 | 7 | 6 | 25.8 | 15 22 | 24.5 | 7 | 28.7 | 3 17 | 31 | 9 | 7 | W° 29.8 | 28.9 | 19 37 | 27.2 | 8 | 0 | 5 21 | 43 | 28.4 | 8 | | | | | | |
| 48 | 0 | 2 | 11 23 | 22.5 | 9 | 1 | 23.8 | 13 38 | 9 | 17.0 | 3 | 3 15 | 51 | 25.2 | 18.0 | 4 | 26.9 | 18 | 3 | 26.6 | 19.1 | 5 | 5 20 | 13 | 9 | 20.1 | 0.7 | 1 22 | 22 | 29.1 | 21.1 | | | | | |
| 49 | 24.7 | 21.7 | 11 47 | 23.2 | 16.3 | 25.7 | 3 | 14 5 | 24.6 | 3 | 26.9 | 24.8 | 16 23 | 9 | 4 | 0 | 4 18 | 38 | 27.3 | 4 | 2 | 0 20 | 52 | 28.6 | 5 | 4 | \approx 29.7 | 23 5 | 9 | 5 | | | | | | |
| 50 | 3 | 1 | 12 12 | 9 | 7 | 4 | 22.7 | 14 36 | 25.3 | 7 | 6 | 3 16 | 58 | 26.6 | 8 | 27.7 | 25.9 | 19 18 | 28.0 | 8 | 28.8 | 27.5 | 21 36 | 29.3 | 8 | 0 | 2 23 | 52 | Π 0.6 | 9 | | | | | | |
| 51 | 23.9 | 20.5 | 12 41 | 24.7 | 17.0 | 0 | 1 | 15 10 | 26.1 | 18.1 | 2 | 23.7 | 17 37 | 27.4 | 19.1 | 3 | 3 20 | 2 | 8 | 20.2 | 5 | 26.9 | 22 25 | Π 0.1 | 21.2 | W° 29.6 | 28.7 | 24 45 | 1.4 | 22.2 | | | | | | |
| 52 | 5 | 19.8 | 13 14 | 25.6 | 4 | 24.6 | 21.4 | 15 48 | 27.0 | 5 | 25.8 | 0 18 | 21 | 28.3 | 5 | 26.9 | 24.7 | 20 51 | 29.7 | 6 | 1 | 3 23 | 19 | 1.0 | 6 | 2 | 1 25 | 45 | 2.3 | 6 | | | | | | |
| 53 | 1 | 0 | 13 51 | 26.5 | 9 | 2 | 20.6 | 16 32 | 9 | 9 | 4 | 22.3 | 19 12 | 29.3 | 20.0 | 5 | 0 21 | 47 | Π 0.6 | 21.0 | 27.7 | 25.6 | 24 21 | 9 | 22.1 | 28.8 | 27.4 | 26 52 | 3.2 | 23.1 | | | | | | |
| 54 | 22.6 | 18.1 | 14 34 | 27.5 | 18.4 | 23.8 | 19.8 | 17 23 | 28.9 | 19.4 | 24.9 | 21.5 | 20 9 | Π 0.3 | 5 | 1 | 23.2 | 22 52 | 1.7 | 5 | 2 | 24.9 | 25 32 | 2.9 | 6 | 4 | 26.7 | 28 8 | 4.2 | 6 | | | | | | |
| 55 | 1 | 17.2 | 15 24 | 28.6 | 9 | 3 | 18.9 | 18 22 | Π 20.0 | 4 | 20.6 | 21 16 | 1.4 | 21.0 | 25.6 | 22.4 | 24 6 | 2.8 | 22.0 | 26.7 | 1 | 26 53 | 4.1 | 23.1 | 0 | 25.9 | 29 35 | 5.4 | 24.1 | | | | | | | |
| 56 | 21.5 | 16.2 | 16 22 | 29.8 | 19.5 | 22.8 | 17.9 | 19 30 | 1.2 | 5 | 23.8 | 19.6 | 22 34 | 2.6 | 6 | 1 | 21.5 | 25 33 | 4.0 | 6 | 1 | 23.2 | 28 27 | 5.4 | 6 | 27.5 | 0 | 1 16 | 6.7 | 7 | | | | | | |

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 18 47 51 } ∇ ARC 281° 57'.8 } 11° | | | | | | H. M. S. 18 52 11 } ∇ 12° 283° 2'.7 } | | | | | | H. M. S. 18 56 30 } ∇ 13° 284° 7'.5 } | | | | | | H. M. S. 19 0 49 } ∇ 14° 285° 12'.3 } | | | | | | H. M. S. 19 5 8 } ∇ 15° 286° 16'.9 } | | | | | | H. M. S. 19 9 26 } ∇ 16° 287° 21'.5 } | | | | | |
|---|------|------|-------|-------|------|--|------|-------|-------|------|-----|--|-------|-------|------|------|------|--|-------|------|------|------|-------|---|------|------|------|-------|------|--|----|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 22 | 7.0 | 8.0 | 15 43 | 19.3 | 16.4 | 8.1 | 9.3 | 17 7 | 20.5 | 17.4 | 9.2 | 10.6 | 18 31 | 21.7 | 18.4 | 10.3 | 11.9 | 19 54 | 22.8 | 19.4 | 11.4 | 13.2 | 21 17 | 23 9 | 20.4 | 12.5 | 14.5 | 22 39 | 25.1 | 21.4 | | | | | |
| 23 | 6.8 | 7.8 | 15 53 | 6 | 5 | 7.9 | 1 | 17 18 | 8 | 6 | 0 | 5 | 18 43 | 9 | 6 | 1 | 8 | 20 7 | 23.1 | 6 | 3 | 1 | 21 30 | 24.2 | 6 | 4 | 4 | 22 53 | 4 | 6 | | | | | |
| 24 | 7 | 7 | 16 3 | 9 | 7 | 8 | 0 | 17 29 | 21.1 | 7 | 8.9 | 3 | 18 55 | 22.2 | 7 | 0 | 6 | 20 20 | 4 | 7 | 1 | 0 | 21 44 | 5 | 8 | 2 | 3 | 23 8 | 7 | 8 | | | | | |
| 25 | 5 | 5 | 16 14 | 20.2 | 9 | 6 | 8.9 | 17 41 | 4 | 9 | 8 | 2 | 19 7 | 5 | 9 | 9.9 | 5 | 20 33 | 7 | 9 | 0 | 12.8 | 21 58 | 8 | 9 | 1 | 2 | 23 23 | 26.0 | 9 | | | | | |
| 26 | 4 | 4 | 16 25 | 5 | 17.0 | 5 | 7 | 17 53 | 7 | 18.0 | 6 | 0 | 19 20 | 8 | 19.1 | 7 | 11.4 | 20 47 | 24.0 | 20.1 | 10.9 | 7 | 22 13 | 25.1 | 21.1 | 0 | 1 | 23 39 | 3 | 22.1 | | | | | |
| 27 | 6.2 | 2 | 16 37 | 8 | 2 | 7.4 | 6 | 18 6 | 22.0 | 2 | 5 | 9.9 | 19 34 | 23.1 | 2 | 6 | 2 | 21 1 | 3 | 2 | 7 | 6 | 22 29 | 4 | 3 | 11.8 | 0 | 23 55 | 6 | 3 | | | | | |
| 28 | 1 | 0 | 16 49 | 21.1 | 4 | 2 | 4 | 18 19 | 3 | 4 | 8.3 | 7 | 19 48 | 4 | 4 | 5 | 1 | 21 16 | 6 | 4 | 6 | 5 | 22 45 | 8 | 4 | 7 | 13.8 | 24 12 | 9 | 4 | | | | | |
| 29 | 0 | 6.9 | 17 2 | 4 | 6 | 1 | 2 | 18 33 | 6 | 6 | 2 | 6 | 20 3 | 7 | 6 | 9.3 | 0 | 21 32 | 9 | 6 | 4 | 12.3 | 23 1 | 126.1 | 6 | 6 | 7 | 24 29 | 27.2 | 6 | | | | | |
| 30 | 5.8 | 7 | 17 15 | 7 | 7 | 6.9 | 0 | 18 47 | 9 | 7 | 0 | 4 | 20 18 | 24.1 | 8 | 1 | 10.8 | 21 49 | 25.3 | 8 | 10.3 | 2 | 23 18 | 4 | 8 | 4 | 6 | 24 48 | 6 | 8 | | | | | |
| 31 | 6 | 5 | 17 29 | 22.0 | 9 | 7 | 7.9 | 19 2 | 23.2 | 9 | 7.9 | 2 | 20 34 | 4 | 20.0 | 0 | 6 | 22 6 | 6 | 21.0 | 1 | 0 | 23 37 | 7 | 22.0 | 11.3 | 4 | 25 7 | 9 | 23.0 | | | | | |
| 32 | 5 | 3 | 17 43 | 4 | 18.1 | 6 | 7 | 19 17 | 6 | 19.1 | 7 | 1 | 20 51 | 8 | 2 | 8.8 | 5 | 22 24 | 9 | 2 | 0 | 11.9 | 23 56 | 27.1 | 2 | 1 | 13.3 | 25 27 | 28.3 | 2 | | | | | |
| 33 | 3 | 1 | 17 58 | 7 | 3 | 4 | 5 | 19 34 | 9 | 3 | 5 | 8.9 | 21 8 | 25.1 | 4 | 7 | 3 | 22 42 | 26.3 | 4 | 9.8 | 7 | 24 15 | 5 | 4 | 0 | 1 | 25 48 | 6 | 4 | | | | | |
| 34 | 1 | 5.9 | 18 14 | 23.1 | 5 | 3 | 3 | 19 51 | 24.3 | 5 | 4 | 7 | 21 27 | 5 | 6 | 5 | 1 | 23 2 | 7 | 6 | 6 | 6 | 24 36 | 9 | 6 | 10.8 | 0 | 26 10 | 29.0 | 6 | | | | | |
| 35 | 4.9 | 7 | 18 31 | 5 | 7 | 1 | 1 | 20 9 | 7 | 7 | 2 | 5 | 21 47 | 9 | 8 | 3 | 0 | 23 23 | 27.1 | 8 | 5 | 4 | 24 58 | 28.3 | 8 | 6 | 12.8 | 26 33 | 4 | 8 | | | | | |
| 36 | 7 | 5 | 18 49 | 9 | 9 | 5.9 | 6.9 | 20 28 | 25.1 | 9 | 0 | 3 | 22 7 | 26.3 | 21.0 | 1 | 9.8 | 23 45 | 5 | 22.0 | 3 | 2 | 25 22 | 7 | 23.0 | 4 | 6 | 26 58 | 9 | 24.0 | | | | | |
| 37 | 5 | 2 | 19 8 | 24.3 | 19.2 | 7 | 7 | 20 49 | 5 | 20.2 | 6.8 | 1 | 22 29 | 8 | 2 | 7.9 | 6 | 24 8 | 9 | 2 | 1 | 0 | 25 46 | 29.1 | 2 | 3 | 5 | 27 23 | 0.3 | 2 | | | | | |
| 38 | 3 | 0 | 19 28 | 8 | 4 | 5 | 4 | 21 10 | 26.0 | 4 | 6 | 7.9 | 22 52 | 27.2 | 4 | 8 | 4 | 24 33 | 28.4 | 4 | 8.9 | 10.8 | 26 12 | 6 | 4 | 1 | 3 | 27 51 | 7 | 4 | | | | | |
| 39 | 1 | 4.7 | 19 49 | 25.2 | 6 | 3 | 2 | 21 33 | 4 | 6 | 4 | 7 | 23 16 | 7 | 6 | 6 | 2 | 24 59 | 8 | 7 | 7 | 6 | 26 40 | Π | 7 | 9.9 | 1 | 28 20 | 1.2 | 7 | | | | | |
| 40 | 3.9 | 5 | 20 12 | 7 | 8 | 1 | 0 | 21 57 | 9 | 9 | 2 | 5 | 23 42 | 28.1 | 9 | 4 | 0 | 25 26 | 29.3 | 9 | 5 | 5 | 27 9 | 0.5 | 9 | 7 | 0 | 28 51 | 7 | 9 | | | | | |
| 41 | 7 | 2 | 20 36 | 26.2 | 20.1 | 4.9 | 5.7 | 22 24 | 27.4 | 21.1 | 0 | 2 | 24 10 | 6 | 22.1 | 2 | 8.8 | 25 56 | 8 | 23.1 | 3 | 3 | 27 41 | 1.0 | 24.2 | 5 | 11.8 | 29 24 | 2.2 | 25.2 | | | | | |
| 42 | 5 | 3.9 | 21 2 | 7 | 4 | 7 | 4 | 22 52 | 9 | 4 | 5.8 | 6.9 | 24 40 | 29.1 | 4 | 0 | 5 | 26 28 | Π 0.4 | 4 | 1 | 1 | 28 14 | 6 | 4 | 3 | 5 | 29 59 | 7 | 4 | | | | | |
| 43 | 3 | 6 | 21 30 | 27.2 | 6 | 4 | 1 | 23 22 | 28.5 | 6 | 6 | 6 | 25 12 | 7 | 7 | 6.7 | 2 | 27 2 | 9 | 7 | 7.9 | 9.8 | 28 50 | 2.1 | 7 | 1 | 3 | 0 36 | 3.3 | 7 | | | | | |
| 44 | 0 | 3 | 22 0 | 8 | 9 | 2 | 4.8 | 23 54 | 29.1 | 9 | 3 | 3 | 25 47 | Π 0.3 | 9 | 5 | 7.9 | 27 38 | 1.5 | 24.0 | 6 | 5 | 29 28 | 7 | 25.0 | 8.8 | 1 | 1 16 | 9 | 26.0 | | | | | |
| 45 | 2.8 | 2.9 | 22 33 | 28.4 | 21.2 | 3.9 | 5 | 24 29 | 7 | 22.2 | 0 | 0 | 26 24 | 9 | 23.2 | 2 | 6 | 28 18 | 2.1 | 3 | 4 | 2 | 0 10 | 3.3 | 3 | 5 | 10.8 | 2 0 | 4.5 | 3 | | | | | |
| 46 | 5 | 5 | 23 8 | 29.0 | 5 | 6 | 2 | 25 7 | Π 0.3 | 5 | 4.8 | 5.7 | 27 5 | 1.5 | 5 | 5.9 | 3 | 29 0 | 8 | 6 | 1 | 8.9 | 0 54 | 4.0 | 6 | 3 | 6 | 2 46 | 5.2 | 6 | | | | | |
| 47 | 2 | 1 | 23 46 | 7 | 8 | 3 | 3.8 | 25 48 | 1.0 | 9 | 5 | 4 | 27 48 | 2.2 | 9 | 6 | 0 | 29 47 | 3.4 | 9 | 6.8 | 6 | 1 43 | 7 | 9 | 0 | 3 | 3 37 | 9 | 9 | | | | | |
| 48 | 1.8 | 1.7 | 24 28 | Π 0.4 | 22.2 | 0 | 4 | 26 33 | 7 | 23.2 | 2 | 0 | 28 36 | 9 | 24.2 | 3 | 6.7 | 0 37 | 4.1 | 25.2 | 5 | 3 | 2 35 | 5.4 | 26.2 | 7.7 | 0 | 4 32 | 6.6 | 27.2 | | | | | |
| 49 | 5 | 3 | 25 15 | 1.1 | 5 | 2.7 | 0 | 27 23 | 2.4 | 5 | 3.9 | 4.6 | 29 28 | 3.6 | 6 | 0 | 3 | 1 32 | 8 | 6 | 2 | 0 | 3 33 | 6.1 | 6 | 4 | 9.7 | 5 32 | 7.3 | 6 | | | | | |
| 50 | 2 | 0.8 | 26 6 | 9 | 9 | 4 | 2.5 | 28 18 | 3.2 | 9 | 6 | 2 | 0 26 | 4.4 | 9 | 4.7 | 5.9 | 2 33 | 5.6 | 9 | 5.9 | 7.6 | 4 37 | 9 | 9 | 1 | 3 | 6 38 | 8.1 | 9 | | | | | |
| 51 | 0.8 | 3 | 27 3 | 2.7 | 23.3 | 1 | 0 | 29 18 | 4.0 | 24.3 | 2 | 3.7 | 1 31 | 5.2 | 25.3 | 3 | 5 | 3 40 | 6.5 | 26.3 | 6 | 2 | 5 47 | 7.7 | 27.3 | 6.8 | 8.9 | 7 50 | 9 | 28.3 | | | | | |
| 52 | 5 | 29.7 | 28 7 | 3.6 | 7 | 1.7 | 1.5 | 0 26 | 8 | 9 | 2.8 | 2 | 2 42 | 6.1 | 7 | 0 | 0 | 4 55 | 7.4 | 7 | 2 | 6.8 | 7 4 | 8.6 | 7 | 4 | 5 | 9 10 | 9.8 | 7 | | | | | |
| 53 | 1 | 1 | 29 18 | 4.6 | 24.1 | 3 | 0.9 | 1 42 | 5.8 | 25.1 | 4 | 2.6 | 4 2 | 7.1 | 26.1 | 3.7 | 4.5 | 6 18 | 8.3 | 27.1 | 4.5 | 3 | 8 30 | 9.6 | 28.1 | 0 | 0 | 10 39 | 10.8 | 29.1 | | | | | |
| 54 | 29.7 | 28.4 | 0 40 | 5.6 | 6 | 0.9 | 2 | 3 8 | 6.8 | 6 | 0 | 0 | 5 32 | 8.2 | 6 | 3 | 3.9 | 7 51 | 9.4 | 6 | 4 | 5.7 | 10 7 | 10.6 | 6 | 5.6 | 7.5 | 12 19 | 11.8 | 6 | | | | | |
| 55 | 2 | 27.7 | 2 13 | 6.7 | 25.1 | 4 | 29.5 | 4 46 | 8.0 | 26.1 | 1.6 | 1.3 | 7 14 | 9.2 | 27.1 | 2.8 | 2 | 9 37 | 10.5 | 28.1 | 0 | 1 | 11 56 | 11.7 | 29.1 | 2 | 6.9 | 14 10 | 12.9 | 0.1 | | | | | |
| 56 | 28.7 | 26.9 | 4 0 | 8.0 | 7 | 29.8 | 28.7 | 6 38 | 9.2 | 7 | 1 | 0.5 | 9 10 | 10.4 | 7 | 2 | 2.4 | 11 38 | 11.8 | 7 | 3.5 | 4.4 | 13 59 | 13.0 | 7 | 4.8 | 3 | 16 15 | 14.1 | 7 | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 19 9 26 } γ ARC 287° 21'5 } 16° | | | | | | H. M. S. 19 13 44 } γ 17° 288° 25'9 } 17° | | | | | | H. M. S. 19 18 1 } γ 18° 289° 30'2 } 18° | | | | | | H. M. S. 19 22 18 } γ 19° 290° 34'4 } 19° | | | | | | H. M. S. 19 26 34 } γ 20° 291° 38'4 } 20° | | | | | | H. M. S. 19 30 49 } γ 21° 292° 42'4 } 21° | | | | | |
|---|------|------|-------|------|------|--|------|--------|------|------|------|---|-------|-------|------|------|------|--|------|------|------|------|-------|--|------|------|------|-------|------|--|------|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | |
| Lat. | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | | | | | |
| 22 | 12.5 | 14.5 | 22 39 | 25.1 | 21.4 | 13.6 | 15.8 | 24 1 | 26.2 | 22.4 | 14.8 | 17.1 | 25 22 | 27.3 | 23.4 | 15.9 | 18.4 | 26 43 | 28.4 | 24.4 | 17.0 | 19.7 | 28 3 | 29.5 | 25.4 | 18.1 | 21.1 | 29 23 | 0.6 | 26.4 | | | | | |
| 23 | 4 | 4 | 22 53 | 4 | 6 | 5 | 7 | 24 16 | 5 | 6 | 6 | 0 | 25 38 | 6 | 6 | 8 | 4 | 26 59 | 7 | 6 | 16.9 | 7 | 28 20 | 8 | 6 | 0 | 0 | 29 41 | 9 | 5 | | | | | |
| 24 | 2 | 3 | 23 8 | 7 | 8 | 4 | 6 | 24 31 | 8 | 8 | 5 | 16.9 | 25 54 | 9 | 7 | 6 | 3 | 27 16 | 29.0 | 7 | 8 | 6 | 28 38 | 0.1 | 7 | 17.9 | 20.9 | 29 59 | 1.2 | 7 | | | | | |
| 25 | 1 | 2 | 23 23 | 26.0 | 9 | 2 | 5 | 24 47 | 27.1 | 9 | 4 | 9 | 26 11 | 28.2 | 9 | 5 | 2 | 27 34 | 3 | 9 | 6 | 5 | 28 56 | 4 | 9 | 8 | 9 | 0 18 | 5 | 9 | | | | | |
| 26 | 0 | 1 | 23 39 | 3 | 22.1 | 1 | 15.4 | 25 4 | 4 | 23.1 | 14.3 | 8 | 26 28 | 5 | 24.1 | 15.4 | 1 | 27 52 | 6 | 25.1 | 5 | 5 | 29 15 | 7 | 26.1 | 7 | 8 | 0 37 | 8 | 27.0 | | | | | |
| 27 | 11.8 | 0 | 23 55 | 6 | 3 | 0 | 3 | 25 21 | 7 | 3 | 1 | 7 | 26 46 | 9 | 3 | 3 | 0 | 28 10 | □ | 2 | 16.4 | 19.4 | 29 34 | 1.1 | 2 | 5 | 7 | 0 58 | 2.2 | 2 | | | | | |
| 28 | 7 | 13.8 | 24 12 | 9 | 4 | 12.8 | 2 | 25 38 | 28.0 | 4 | 0 | 6 | 27 4 | 29.2 | 4 | 1 | 17.9 | 28 30 | 0.3 | 4 | 3 | 3 | 29 55 | 4 | 4 | 17.4 | 7 | 1 19 | 5 | 4 | | | | | |
| 29 | 6 | 7 | 24 29 | 27.2 | 6 | 7 | 1 | 25 57 | 4 | 6 | 13.8 | 16.5 | 27 24 | 5 | 6 | 0 | 8 | 28 50 | 6 | 6 | 1 | 2 | 0 16 | 7 | 6 | 3 | 20.6 | 1 40 | 9 | 6 | | | | | |
| 30 | 4 | 6 | 24 48 | 6 | 8 | 5 | 14.9 | 26 16 | 7 | 8 | 7 | 3 | 27 44 | 8 | 8 | 14.8 | 7 | 29 11 | 1.0 | 8 | 0 | 1 | 0 38 | 2.1 | 8 | 1 | 5 | 2 3 | 3.2 | 7 | | | | | |
| 31 | 11.3 | 4 | 25 7 | 9 | 23.0 | 4 | 8 | 26 36 | 29.1 | 24.0 | 5 | 2 | 28 5 | 0.2 | 25.0 | 7 | 6 | 29 33 | 3 | 26.0 | 15.8 | 0 | 1 | 0 | 5 | 9 | 0 | 4 | 2 27 | 6 | 9 | | | | |
| 32 | 1 | 13.3 | 25 27 | 28.3 | 2 | 12.2 | 7 | 26 57 | 4 | 2 | 4 | 1 | 28 27 | 5 | 2 | 5 | 5 | 29 56 | 7 | 2 | 7 | 18.9 | 1 | 24 | 8 | 27.1 | 16.8 | 4 | 2 52 | 9 | 28.1 | | | | |
| 33 | 0 | 1 | 25 48 | 6 | 4 | 1 | 6 | 27 20 | 8 | 4 | 2 | 0 | 28 50 | 9 | 4 | 4 | 17.4 | 0 20 | 2.1 | 4 | 5 | 8 | 1 49 | 3.2 | 3 | 7 | 20.3 | 3 18 | 4.3 | 3 | | | | | |
| 34 | 10.8 | 0 | 26 10 | 29.0 | 6 | 0 | 14.4 | 27 43 | □ | 0.2 | 6 | 1 | 15.9 | 29 15 | 1.3 | 6 | 14.2 | 3 | 0 46 | 5 | 6 | 4 | 7 | 2 16 | 6 | 5 | 5 | 2 | 3 45 | 7 | 5 | | | | |
| 35 | 6 | 12.8 | 26 33 | 4 | 8 | 11.9 | 3 | 28 7 | 6 | 8 | 12.9 | 7 | 29 40 | 7 | 8 | 1 | 2 | 1 12 | 9 | 8 | 2 | 6 | 2 43 | 4.0 | 7 | 4 | 1 | 4 13 | 5.1 | 7 | | | | | |
| 36 | 4 | 6 | 26 58 | 9 | 24.0 | 7 | 1 | 28 33 | 1.0 | 25.0 | 7 | 6 | 0 7 | 2.2 | 26.0 | 0 | 1 | 1 40 | 3.3 | 27.0 | 0 | 5 | 3 12 | 4 | 9 | 16.2 | 0 | 4 43 | 6 | 9 | | | | | |
| 37 | 3 | 5 | 27 23 | □ | 0.3 | 2 | 5 | 0 29 0 | 5 | 2 | 5 | 4 | 0 35 | 6 | 2 | 13.8 | 16.9 | 2 9 | 7 | 2 | 14.9 | 18.4 | 3 43 | 9 | 28.2 | 1 | 19.9 | 5 15 | 6.0 | 29.2 | | | | | |
| 38 | 1 | 3 | 27 51 | 7 | 4 | 3 | 13.8 | 29 28 | 9 | 4 | 4 | 15.3 | 1 5 | 3.1 | 4 | 6 | 8 | 2 40 | 4.2 | 4 | 8 | 3 | 4 15 | 5.3 | 4 | 0 | 8 | 5 48 | 5 | 4 | | | | | |
| 39 | 9.9 | 1 | 28 20 | 1.2 | 7 | 1 | 6 | 29 59 | 2.4 | 7 | 2 | 1 | 1 37 | 5 | 7 | 4 | 6 | 3 13 | 7 | 6 | 6 | 2 | 4 49 | 8 | 6 | 15.8 | 7 | 6 23 | 7.0 | 6 | | | | | |
| 40 | 7 | 0 | 28 51 | 7 | 9 | 10.9 | 5 | 0 31 | 9 | 9 | 0 | 0 | 2 10 | 4.0 | 9 | 2 | 5 | 3 48 | 5.2 | 9 | 4 | 0 | 5 25 | 6.3 | 9 | 6 | 6 | 7 0 | 5 | 8 | | | | | |
| 41 | 5 | 11.8 | 29 24 | 2.2 | 25.2 | 7 | 3 | 1 6 | 3.4 | 26.2 | 11.8 | 14.8 | 2 46 | 5 | 27.1 | 0 | 3 | 4 25 | 7 | 28.1 | 2 | 17.9 | 6 3 | 8 | 29.1 | 4 | 19.5 | 7 39 | 8.0 | 0.1 | | | | | |
| 42 | 3 | 5 | 29 59 | 7 | 4 | 5 | 1 | 1 42 | 9 | 4 | 6 | 6 | 3 24 | 5.1 | 4 | 12.8 | 1 | 5 4 | 6.2 | 4 | 0 | 7 | 6 43 | 7.4 | 4 | 2 | 4 | 8 21 | 5 | 3 | | | | | |
| 43 | 1 | 3 | 0 36 | 3.3 | 7 | 2 | 12.9 | 2 21 | 4.5 | 7 | 4 | 4 | 4 5 | 7 | 7 | 6 | 15.9 | 5 46 | 8 | 7 | 13.8 | 5 | 7 27 | 8.0 | 6 | 0 | 3 | 9 5 | 9.1 | 6 | | | | | |
| 44 | 8.8 | 1 | 1 16 | 9 | 26.0 | 0 | 7 | 3 3 | 5.1 | 27.0 | 1 | 2 | 4 48 | 6.3 | 28.0 | 3 | 7 | 6 31 | 7.4 | 9 | 5 | 4 | 8 13 | 6 | 9 | 14.8 | 1 | 9 53 | 7 | 9 | | | | | |
| 45 | 5 | 10.8 | 2 0 | 4.5 | 3 | 9.7 | 4 | 3 48 | 7 | 3 | 10.9 | 0 | 5 35 | 9 | 3 | 1 | 5 | 7 20 | 8.0 | 29.2 | 3 | 3 | 9 3 | 9.2 | 0.2 | 6 | 18.9 | 10 44 | 10.3 | 1.2 | | | | | |
| 46 | 3 | 6 | 2 46 | 5.2 | 6 | 4 | 2 | 4 37 | 6.4 | 6 | 7 | 13.8 | 6 25 | 7.5 | 6 | 11.9 | 3 | 8 12 | 7 | 5 | 1 | 1 | 9 56 | 8 | 5 | 3 | 7 | 11 38 | 11.0 | 5 | | | | | |
| 47 | 0 | 3 | 3 37 | 9 | 9 | 2 | 11.9 | 5 29 | 7.0 | 9 | 4 | 6 | 7 19 | 8.2 | 9 | 7 | 1 | 9 8 | 9.4 | 8 | 12.9 | 16.9 | 10 53 | 10.5 | 8 | 1 | 5 | 12 37 | 6 | 8 | | | | | |
| 48 | 7.7 | 0 | 4 32 | 6.6 | 27.2 | 8.9 | 6 | 6 26 | 7 | 28.2 | 1 | 3 | 8 18 | 9 | 29.2 | 4 | 14.9 | 10 8 | 10.1 | 0.2 | 6 | 7 | 11 55 | 11.2 | 1.1 | 13.8 | 3 | 13 41 | 12.3 | 2.1 | | | | | |
| 49 | 4 | 9.7 | 5 32 | 7.3 | 6 | 6 | 3 | 7 28 | 8.5 | 5 | 9.8 | 0 | 9 22 | 9.6 | 5 | 1 | 7 | 11 14 | 8 | 5 | 3 | 5 | 13 2 | 9 | 5 | 5 | 1 | 14 49 | 13.1 | 5 | | | | | |
| 50 | 1 | 3 | 6 38 | 8.1 | 9 | 3 | 0 | 8 36 | 9.2 | 9 | 5 | 12.7 | 10 32 | 10.4 | 9 | 10.8 | 4 | 12 25 | 11.6 | 9 | 0 | 2 | 14 16 | 12.7 | 9 | 2 | 17.9 | 16 4 | 8 | 8 | | | | | |
| 51 | 6.8 | 8.9 | 7 50 | 9 | 28.3 | 0 | 10.6 | 9 51 | 10.1 | 29.3 | 2 | 4 | 11 49 | 11.2 | 0.3 | 5 | 1 | 13 44 | 12.4 | 1.3 | 11.7 | 15.9 | 15 36 | 13.5 | 2.2 | 12.8 | 7 | 17 25 | 14.6 | 3.2 | | | | | |
| 52 | 4 | 5 | 9 10 | 9.8 | 7 | 7.6 | 2 | 11 14 | 11.0 | 7 | 8.9 | 0 | 13 13 | 12.1 | 7 | 1 | 13.8 | 15 10 | 13.3 | 7 | 4 | 6 | 17 3 | 14.4 | 6 | 5 | 4 | 18 53 | 15.5 | 6 | | | | | |
| 53 | 0 | 0 | 10 39 | 10.8 | 29.1 | 3 | 9.8 | 12 45 | 9 | 0.1 | 5 | 11.6 | 14 46 | 13.1 | 1.1 | 9.7 | 5 | 16 45 | 14.2 | 2.1 | 0 | 3 | 18 39 | 15.3 | 3.0 | 2 | 1 | 20 30 | 16.5 | 4.0 | | | | | |
| 54 | 5.6 | 7.5 | 12 19 | 11.8 | 6 | 6.9 | 3 | 14 26 | 12.9 | 6 | 1 | 2 | 16 29 | 14.1 | 6 | 3 | 1 | 18 29 | 15.2 | 6 | 10.6 | 0 | 20 25 | 16.4 | 5 | 11.8 | 16.8 | 22 17 | 17.5 | 5 | | | | | |
| 55 | 2 | 6.9 | 14 10 | 12.9 | 0.1 | 4 | 8.8 | 16 19 | 14.0 | 1.1 | 7.7 | 10.7 | 18 24 | 15.2 | 2.1 | 8.9 | 12.7 | 20 25 | 16.3 | 3.1 | 2 | 14.6 | 22 22 | 17.5 | 4.0 | 4 | 5 | 24 15 | 18.6 | 5.0 | | | | | |
| 56 | 4.8 | 3 | 16 15 | 14.1 | 7 | 0 | 2 | 18 27 | 15.2 | 7 | 3 | 2 | 20 33 | 16.4 | 6 | 5 | 2 | 22 35 | 17.5 | 6 | 9.8 | 2 | 24 33 | 18.7 | 5 | 0 | 1 | 26 26 | 19.8 | 5 | | | | | |

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 19 35 5 } $\frac{1}{2}$ ARC 293° 46'.2 } 22° | | | | | | H. M. S. 19 39 19 } $\frac{1}{2}$ 23° 294° 49'.8 } $\frac{1}{2}$ | | | | | | H. M. S. 19 43 33 } $\frac{1}{2}$ 24° 295° 53'.3 } $\frac{1}{2}$ | | | | | | H. M. S. 19 47 47 } $\frac{1}{2}$ 25° 296° 56'.7 } $\frac{1}{2}$ | | | | | | H. M. S. 19 51 59 } $\frac{1}{2}$ 26° 297° 59'.9 } $\frac{1}{2}$ | | | | | | H. M. S. 19 56 12 } $\frac{1}{2}$ 27° 299° 2'.9 } $\frac{1}{2}$ | | | | | |
|---|------|------|-------|------|------|--|------|-------|------|------|------|--|-------|------|------|------|------|--|-------|------|------|------|-------|--|------|------|---------|-------|------|---|------|----|---|---|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 |
| Lat. | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | |
| 22 | 19.3 | 22.4 | 0 42 | 1.7 | 27.4 | 20.4 | 23.7 | 2 1 | 2.8 | 28.3 | 21.5 | 25.0 | 3 19 | 3.8 | 29.3 | 22.7 | 26.3 | 4 36 | 4.9 | 0.3 | 23.8 | 27.5 | 5 53 | 6.0 | 1.2 | 24.9 | 28.8 | 7 9 | 7.0 | 2.2 | | | | | |
| 23 | 2 | 3 | 1 1 | 2.0 | 5 | 3 | 6 | 2 20 | 3.1 | 5 | 4 | 24.9 | 3 38 | 4.2 | 5 | 6 | 2 | 4 56 | 5.2 | 4 | 7 | 5 | 6 13 | 3 | 4 | 8 | 8 | 7 30 | 3 | 4 | | | | | |
| 24 | 0 | 3 | 1 20 | 3 | 7 | 2 | 6 | 2 39 | 4 | 7 | 3 | 9 | 3 58 | 5 | 6 | 5 | 2 | 5 17 | 5 | 6 | 6 | 5 | 6 35 | 6 | 6 | 7 | 8 | 7 52 | 6 | 5 | | | | | |
| 25 | 18.9 | 2 | 1 39 | 6 | 8 | 1 | 5 | 3 0 | 7 | 8 | 2 | 9 | 4 19 | 8 | 8 | 4 | 2 | 5 38 | 9 | 8 | 5 | 5 | 6 57 | 9 | 7 | 6 | 8 | 8 14 | 9 | 7 | | | | | |
| 26 | 8 | 22.2 | 1 59 | 9 | 28.0 | 19.9 | 5 | 3 20 | 4.0 | 29.0 | 1 | 8 | 4 41 | 5.1 | 22.2 | 26.2 | 6 0 | 6.2 | 9 | 23.4 | 5 | 7 19 | 7.2 | 9 | 5 | 8 | 8 37 | 8.2 | 9 | | | | | | |
| 27 | 7 | 1 | 2 20 | 3.3 | 2 | 8 | 23.4 | 3 42 | 4 | 2 | 0 | 8 | 5 3 | 4 | 0.1 | 1 | 1 | 6 23 | 5 | 1.1 | 3 | 27.5 | 7 43 | 6 | 2.1 | 24.4 | 28.8 | 9 1 | 5 | 3.0 | | | | | |
| 28 | 5 | 0 | 2 42 | 6 | 4 | 7 | 4 | 4 4 | 7 | 3 | 20.8 | 24.8 | 5 26 | 8 | 3 | 0 | 1 | 6 47 | 9 | 3 | 1 | 4 | 8 7 | 9 | 2 | 3 | 8 | 9 26 | 9 | 2 | | | | | |
| 29 | 18.4 | 0 | 3 4 | 4.0 | 5 | 6 | 3 | 4 28 | 5.0 | 5 | 7 | 7 | 5 50 | 6.1 | 5 | 21.9 | 1 | 7 12 | 7.2 | 4 | 0 | 4 | 8 32 | 8.3 | 4 | 2 | 8 | 9 52 | 9.3 | 4 | | | | | |
| 30 | 3 | 21.9 | 3 28 | 3 | 7 | 19.4 | 3 | 4 52 | 4 | 7 | 6 | 7 | 6 15 | 5 | 7 | 7 | 26.0 | 7 37 | 6 | 6 | 22.9 | 4 | 8 58 | 6 | 6 | 1 | 8 | 10 19 | 7 | 6 | | | | | |
| 31 | 1 | 8 | 3 52 | 7 | 9 | 3 | 2 | 5 17 | 8 | 9 | 4 | 6 | 6 41 | 8 | 8 | 6 | 0 | 8 4 | 9 | 8 | 8 | 4 | 9 26 | 9.0 | 8 | 23.9 | 8 | 10 47 | 10.1 | 7 | | | | | |
| 32 | 0 | 8 | 4 18 | 5.0 | 29.1 | 1 | 23.2 | 5 43 | 6.1 | 0.1 | 20.3 | 6 | 7 8 | 7.2 | 1.0 | 5 | 0 | 8 31 | 8.3 | 2.0 | 6 | 27.3 | 9 54 | 4 | 3.0 | 8 | 28.7 | 11 16 | 5 | 9 | | | | | |
| 33 | 17.8 | 7 | 4 45 | 4 | 3 | 0 | 1 | 6 11 | 5 | 3 | 2 | 24.5 | 7 36 | 6 | 2 | 21.4 | 25.9 | 9 1 | 7 | 2 | 5 | 3 | 10 24 | 8 | 2 | 7 | 7 11 46 | 9 | 4.1 | | | | | | |
| 34 | 7 | 21.6 | 5 13 | 8 | 5 | 18.8 | 0 | 6 40 | 9 | 5 | 0 | 5 | 8 6 | 8.0 | 4 | 2 | 9 | 9 31 | 9.1 | 4 | 22.4 | 3 | 10 55 | 10.2 | 4 | 5 | 7 | 12 18 | 11.3 | 3 | | | | | |
| 35 | 5 | 5 | 5 42 | 6.2 | 7 | 7 | 0 | 7 10 | 7.3 | 7 | 19.9 | 4 | 8 37 | 4 | 6 | 1 | 8 | 10 3 | 5 | 6 | 3 | 3 | 11 28 | 6 | 6 | 23.4 | 7 | 12 51 | 7 | 5 | | | | | |
| 36 | 4 | 4 | 6 13 | 7 | 9 | 5 | 22.9 | 7 42 | 8 | 9 | 7 | 4 | 9 10 | 9 | 8 | 20.9 | 8 | 10 36 | 9 | 8 | 2 | 3 | 12 2 | 11.0 | 8 | 3 | 7 | 13 26 | 12.1 | 7 | | | | | |
| 37 | 2 | 4 | 6 45 | 7.1 | 0.1 | 4 | 8 | 8 15 | 8.2 | 1.1 | 6 | 3 | 9 44 | 9.3 | 2.1 | 8 | 8 | 11 11 | 10.4 | 3.0 | 0 | 27.2 | 12 38 | 5 | 4.0 | 2 | 28.7 | 14 3 | 5 | 9 | | | | | |
| 38 | 0 | 21.3 | 7 20 | 6 | 3 | 2 | 7 | 8 50 | 7 | 3 | 4 | 24.2 | 10 20 | 8 | 3 | 6 | 25.7 | 11 48 | 9 | 2 | 21.9 | 2 | 13 15 | 9 | 2 | 0 | 7 | 14 41 | 13.0 | 5.1 | | | | | |
| 39 | 16.9 | 2 | 7 56 | 8.1 | 6 | 0 | 7 | 9 27 | 9.2 | 5 | 19.2 | 2 | 10 58 | 10.3 | 5 | 5 | 7 | 12 27 | 11.3 | 5 | 7 | 2 | 13 55 | 12.4 | 4 | 22.9 | 7 | 15 21 | 5 | 4 | | | | | |
| 40 | 7 | 1 | 8 34 | 6 | 8 | 17.9 | 6 | 10 6 | 7 | 8 | 1 | 1 | 11 38 | 8 | 7 | 3 | 6 | 13 7 | 8 | 7 | 5 | 1 | 14 36 | 9 | 7 | 7 | 6 | 16 3 | 14.0 | 6 | | | | | |
| 41 | 5 | 0 | 9 14 | 9.1 | 1.1 | 7 | 22.5 | 10 48 | 10.2 | 2.0 | 0 | 0 | 12 20 | 11.3 | 3.0 | 1 | 6 | 13 51 | 12.4 | 9 | 3 | 27.1 | 15 20 | 13.4 | 9 | 5 | 6 | 16 48 | 5 | 9 | | | | | |
| 42 | 3 | 20.8 | 9 57 | 6 | 3 | 5 | 4 | 11 32 | 7 | 3 | 18.8 | 0 | 13 4 | 8 | 3 | 19.9 | 25.5 | 14 36 | 9 | 4.2 | 1 | 1 | 16 6 | 14.0 | 5.1 | 4 | 28.6 | 17 35 | 15.1 | 6.1 | | | | | |
| 43 | 1 | 7 | 10 43 | 10.2 | 6 | 4 | 3 | 12 18 | 11.3 | 6 | 6 | 23.9 | 13 52 | 12.4 | 5 | 7 | 5 | 15 25 | 13.5 | 5 | 20.9 | 0 | 16 56 | 6 | 4 | 2 | 6 | 18 25 | 7 | 4 | | | | | |
| 44 | 15.9 | 6 | 11 31 | 8 | 9 | 2 | 2 | 13 8 | 9 | 8 | 4 | 8 | 14 43 | 13.0 | 8 | 5 | 4 | 16 16 | 14.1 | 8 | 8 | 0 | 17 48 | 15.2 | 7 | 0 | 6 | 19 18 | 16.3 | 7 | | | | | |
| 45 | 7 | 4 | 12 24 | 11.4 | 2.2 | 0 | 1 | 14 1 | 12.5 | 3.1 | 1 | 7 | 15 37 | 6 | 4.1 | 3 | 3 | 17 11 | 7 | 5.1 | 6 | 26.9 | 18 43 | 8 | 6.0 | 21.8 | 6 | 20 14 | 9 | 7.0 | | | | | |
| 46 | 4 | 20.3 | 13 19 | 12.1 | 5 | 16.8 | 21.9 | 14 58 | 13.2 | 4 | 17.9 | 6 | 16 35 | 14.2 | 4 | 1 | 25.2 | 18 10 | 15.3 | 4 | 4 | 9 | 19 43 | 16.4 | 3 | 5 | 5 | 21 14 | 17.5 | 3 | | | | | |
| 47 | 2 | 2 | 14 19 | 7 | 8 | 6 | 8 | 15 59 | 8 | 7 | 7 | 5 | 17 37 | 9 | 7 | 18.9 | 2 | 19 12 | 16.0 | 7 | 2 | 8 | 20 46 | 17.1 | 6 | 3 | 28.5 | 22 18 | 18.2 | 6 | | | | | |
| 48 | 0 | 1 | 15 24 | 13.4 | 3.1 | 3 | 7 | 17 4 | 14.5 | 4.1 | 5 | 23.4 | 18 43 | 15.6 | 5.0 | 6 | 1 | 20 20 | 7 | 6.0 | 0 | 8 | 21 54 | 8 | 9 | 1 | 5 | 23 27 | 9 | 9 | | | | | |
| 49 | 14.7 | 19.9 | 16 33 | 14.2 | 4 | 0 | 5 | 18 15 | 15.3 | 4 | 2 | 3 | 19 55 | 16.3 | 4 | 4 | 0 | 21 32 | 17.4 | 3 | 19.7 | 26.7 | 23 7 | 18.5 | 7.2 | 20.9 | 5 | 24 40 | 19.6 | 8.2 | | | | | |
| 50 | 4 | 7 | 17 49 | 9 | 8 | 15.7 | 21.4 | 19 32 | 16.0 | 7 | 16.9 | 2 | 21 12 | 17.1 | 7 | 1 | 24.9 | 22 50 | 18.2 | 6 | 4 | 7 | 24 26 | 19.3 | 6 | 6 | 4 | 25 59 | 20.3 | 5 | | | | | |
| 51 | 1 | 5 | 19 11 | 15.7 | 4.2 | 4 | 3 | 20 55 | 8 | 5.1 | 6 | 1 | 22 36 | 9 | 6.1 | 17.8 | 8 | 24 15 | 19.0 | 7.0 | 1 | 6 | 25 51 | 20.1 | 9 | 3 | 4 | 27 24 | 21.1 | 9 | | | | | |
| 52 | 13.8 | 3 | 20 41 | 16.6 | 6 | 1 | 1 | 22 25 | 17.7 | 5 | 3 | 22.9 | 24 7 | 18.8 | 5 | 5 | 7 | 25 46 | 9 | 4 | 18.8 | 5 | 27 22 | 9 | 8.3 | 0 | 28.3 | 28 56 | 9 | 9.3 | | | | | |
| 53 | 4 | 1 | 22 18 | 17.6 | 5.0 | 14.8 | 20.9 | 24 3 | 18.7 | 9 | 15.9 | 7 | 25 46 | 19.7 | 9 | 2 | 6 | 27 25 | 20.8 | 8 | 5 | 26.4 | 29 1 | 21.8 | 8 | 19.7 | 3 | 0 35 | 22.8 | 7 | | | | | |
| 54 | 1 | 18.8 | 24 6 | 18.6 | 4 | 4 | 7 | 25 51 | 19.7 | 6.4 | 6 | 5 | 27 33 | 20.7 | 7.3 | 16.9 | 24.4 | 29 13 | 21.8 | 8.3 | 2 | 3 | 0 49 | 22.8 | 9.2 | 4 | 2 | 2 22 | 23 8 | 10.1 | | | | | |
| 55 | 12.7 | 5 | 26 4 | 19.7 | 9 | 13.9 | 4 | 27 50 | 20.7 | 9 | 2 | 3 | 29 32 | 21.8 | 8 | 5 | 3 | 1 10 | 22.9 | 7 | 17.8 | 3 | 24 6 | 23 9 | 7 | 1 | 2 | 4 19 | 24.9 | 6 | | | | | |
| 56 | 3 | 2 | 28 15 | 20.9 | 6.4 | 5 | 1 | 0 0 | 21.9 | 7.4 | 14.8 | 1 | 1 41 | 23.0 | 8.3 | 1 | 1 | 3 | 19 24 | 0 | 9.2 | 5 | 2 | 4 54 | 25.0 | 10.2 | 18.7 | 2 | 6 25 | 26.1 | 11.1 | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 19 56 12 } γ ARC 299° 2' 9 } γ 27° | | | | | | H. M. S. 20 0 23 } γ 28° 300° 5' 8 } γ 28° | | | | | | H. M. S. 20 4 34 } γ 29° 301° 8' 5 } γ 29° | | | | | | H. M. S. 20 8 44 } γ 0° 302° 11' 1 } γ 0° | | | | | | H. M. S. 20 12 54 } γ 1° 303° 13' 4 } γ 1° | | | | | | H. M. S. 20 17 3 } γ 2° 304° 15' 6 } γ 2° | | | | | | |
|---|----------|----------|----------|----------|----------|--|----------|----------|----------|----------|----------|--|----------|----------|----------|----------|----------|---|----------|----------|----------|----------|----------|--|----------|----------|----------|----------|----------|---|----------|----------|----------|---|---|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | | | |
| 22 | 24.9 | 28.8 | 7 9 | 7.0 | 2.2 | 26.1 | 0.1 | 8 24 | 8.0 | 3.2 | 27.2 | 1.4 | 9 38 | 9.1 | 4.1 | 28.4 | 2.7 | 10 52 | 10.1 | 5.1 | 29.5 | 4.0 | 12 5 | 11.1 | 6.0 | 0.7 | 5.2 | 13 18 | 12.1 | 7.0 | | | | | | |
| 23 | 8 | 8 | 7 30 | 3 | 4 | 0 | 1 | 8 45 | 3 | 3 | 1 | 4 10 | 1 | 4 | 3 | 3 | 7 11 | 15 | 4 | 2 | 4 | 0 12 | 28 | 4 | 2 | 6 | 3 | 13 41 | 4 | | | | | | | |
| 24 | 7 | 8 | 7 52 | 6 | 5 | 25.9 | 1 | 9 8 | 6 | 5 | 0 | 4 10 | 23 | 7 | 4 | 2 | 7 11 | 38 | 7 | 4 | 3 | 0 12 | 52 | 7 | 4 | 5 | 3 | 14 6 | 8 | 3 | | | | | | |
| 25 | 6 | 8 | 8 14 | 9 | 7 | 8 | 1 | 9 31 | 9 | 7 | 26.9 | 4 | 10 47 | 10.0 | 6 | 1 | 7 12 | 2 | 11.1 | 5 | 2 | 1 13 | 17 | 12.1 | 5 | 4 | 3 | 14 31 | 13.1 | 5 | | | | | | |
| 26 | 5 | 8 | 8 37 | 8.2 | 9 | 7 | 1 | 9 55 | 9.2 | 8 | 8 | 4 11 | 11 | 3 | 8 | 0 | 2.8 | 12 27 | 4 | 7 | 1 | 1 13 | 42 | 4 | 7 | 0.3 | 5.4 | 14 56 | 4 | 6 | | | | | | |
| 27 | 24.4 | 28.8 | 9 1 | 5 | 3.0 | 6 | 0.1 | 10 19 | 5 | 4.0 | 7 | 1.5 | 11 36 | 6 | 9 | 27.9 | 8 | 12 53 | 7 | 9 | 0 | 4.1 | 14 8 | 7 | 8 | 2 | 4 | 15 23 | 8 | 8 | | | | | | |
| 28 | 3 | 8 | 9 26 | 9 | 2 | 5 | 1 | 10 45 | 9 | 2 | 6 | 5 | 12 2 | 11.0 | 5.1 | 8 | 8 | 13 19 | 12.1 | 6.0 | 28.9 | 2 | 14 35 | 13.1 | 7.0 | 1 | 5 | 15 51 | 14.1 | 8.0 | | | | | | |
| 29 | 2 | 8 | 9 52 | 9.3 | 4 | 25.3 | 1 | 11 11 | 10.3 | 3 | 5 | 5 | 12 29 | 4 | 3 | 7 | 8 | 13 47 | 4 | 2 | 8 | 2 | 15 3 | 4 | 2 | 0 | 5 | 16 19 | 5 | 1 | | | | | | |
| 30 | 1 | 8 | 10 19 | 7 | 6 | 2 | 1 | 11 39 | 7 | 5 | 26.4 | 5 | 12 57 | 8 | 5 | 6 | 2.9 | 14 15 | 8 | 4 | 7 | 2 | 15 32 | 8 | 4 | 29.9 | 5.6 | 16 49 | 8 | 3 | | | | | | |
| 31 | 23.9 | 8 | 10 47 | 10.1 | 7 | 1 | 1 | 12 7 | 11.1 | 7 | 3 | 5 | 13 26 | 12.2 | 6 | 5 | 9 | 14 45 | 13.2 | 6 | 6 | 3 | 16 3 | 14.2 | 5 | 8 | 6 | 17 19 | 15.2 | 5 | | | | | | |
| 32 | 8 | 28.7 | 11 16 | 5 | 9 | 0 | 0.1 | 12 37 | 5 | 9 | 2 | 1.5 | 13 57 | 6 | 8 | 27.4 | 9 | 15 16 | 5 | 8 | 5 | 4.3 | 16 34 | 6 | 7 | 7 | 7 | 17 51 | 6 | 7 | | | | | | |
| 33 | 7 | 7 | 11 46 | 9 | 4.1 | 24.8 | 1 | 13 8 | 9 | 5.1 | 0 | 5 | 14 28 | 13.0 | 6.0 | 2 | 9 | 15 48 | 9 | 7.0 | 28.4 | 3 | 17 6 | 15.0 | 9 | 6 | 7 | 18 24 | 16.0 | 9 | | | | | | |
| 34 | 5 | 7 | 12 18 | 11.3 | 3 | 7 | 1 | 13 40 | 12.3 | 3 | 25.9 | 5 | 15 1 | 4 | 2 | 1 | 3.0 | 16 21 | 14.4 | 2 | 3 | 4 | 17 40 | 4 | 8.1 | 5 | 5.8 | 18 59 | 4 | 9.0 | | | | | | |
| 35 | 23.4 | 7 | 12 51 | 7 | 5 | 6 | 1 | 14 14 | 7 | 5 | 8 | 6 | 15 36 | 8 | 4 | 0 | 0 | 16 56 | 8 | 4 | 2 | 4 | 18 16 | 8 | 3 | 29.4 | 8 | 19 34 | 8 | 2 | | | | | | |
| 36 | 3 | 7 | 13 26 | 12.1 | 7 | 5 | 1 | 14 49 | 13.1 | 7 | 7 | 6 | 16 12 | 14.2 | 6 | 26.9 | 0 | 17 33 | 15.2 | 6 | 1 | 5 | 18 53 | 16.2 | 5 | 2 | 9 | 20 12 | 17.2 | 4 | | | | | | |
| 37 | 2 | 28.7 | 14 3 | 5 | 9 | 24.4 | 0.1 | 15 27 | 6 | 9 | 6 | 1.6 | 16 49 | 6 | 8 | 7 | 1 | 18 11 | 7 | 8 | 0 | 4.5 | 19 32 | 7 | 7 | 1 | 9 | 20 51 | 7 | 7 | | | | | | |
| 38 | 0 | 7 | 14 41 | 13.0 | 5.1 | 2 | 1 | 16 5 | 14.1 | 6.1 | 25.4 | 6 | 17 29 | 15.1 | 7.0 | 6 | 1 | 18 51 | 16.1 | 8.0 | 27.9 | 6 | 20 12 | 17.2 | 9 | 0 | 6.0 | 21 32 | 18.2 | 9 | | | | | | |
| 39 | 22.9 | 7 | 15 21 | 5 | 4 | 1 | 1 | 16 46 | 5 | 3 | 3 | 6 | 18 10 | 6 | 3 | 4 | 3.1 | 19 33 | 6 | 2 | 7 | 6 | 20 55 | 6 | 9.2 | 28.8 | 1 | 22 15 | 6 | 10.1 | | | | | | |
| 40 | 7 | 6 | 16 3 | 14.0 | 6 | 23.9 | 1 | 17 29 | 15.0 | 6 | 1 | 7 | 18 54 | 16.1 | 5 | 26.3 | 2 | 20 17 | 17.1 | 5 | 5 | 7 | 21 39 | 18.1 | 4 | 7 | 1 | 23 0 | 19.1 | 3 | | | | | | |
| 41 | 5 | 6 | 16 48 | 5 | 9 | 7 | 1 | 18 15 | 6 | 8 | 24.9 | 7 | 19 40 | 6 | 8 | 1 | 2 | 21 3 | 6 | 7 | 4 | 4.7 | 22 26 | 6 | 6 | 5 | 2 | 23 47 | 7 | 6 | | | | | | |
| 42 | 4 | 28.6 | 17 35 | 15.1 | 6.1 | 6 | 0.1 | 19 2 | 16.1 | 7.1 | 8 | 1.7 | 20 28 | 17.2 | 8.0 | 0 | 2 | 21 52 | 18.2 | 9 | 2 | 8 | 23 15 | 19.2 | 9 | 3 | 6.3 | 24 37 | 20.2 | 8 | | | | | | |
| 43 | 2 | 6 | 18 25 | 7 | 4 | 4 | 2 | 19 54 | 7 | 4 | 6 | 7 | 21 19 | 8 | 3 | 25.8 | 3 | 22 44 | 7 | 9.2 | 0 | 8 | 24 7 | 8 | 10.2 | 2 | 4 | 25 29 | 7 | 11.1 | | | | | | |
| 44 | 0 | 6 | 19 18 | 16.3 | 7 | 2 | 2 | 20 46 | 17.3 | 6 | 4 | 8 | 22 13 | 18.4 | 6 | 6 | 3.3 | 23 39 | 19.3 | 5 | 26.8 | 9 | 25 2 | 20.3 | 4 | 1 | 5 | 26 25 | 21.3 | 4 | | | | | | |
| 45 | 21.8 | 6 | 20 14 | 9 | 7.0 | 0 | 2 | 21 43 | 9 | 9 | 2 | 8 | 23 11 | 19.0 | 9 | 4 | 4 | 24 37 | 9 | 7 | 6 | 5.0 | 26 1 | 9 | 7 | 27.9 | 6 | 27 23 | 9 | 6 | | | | | | |
| 46 | 5 | 5 | 21 14 | 17.5 | 3 | 22.8 | 2 | 22 44 | 18.5 | 8.2 | 0 | 8 | 24 12 | 6 | 9.1 | 2 | 4 | 25 38 | 20.6 | 10.0 | 4 | 1 | 27 3 | 21.6 | 11.0 | 7 | 6.7 | 28 25 | 22.6 | 9 | | | | | | |
| 47 | 3 | 28.5 | 22 18 | 18.2 | 6 | 6 | 0.2 | 23 48 | 19.2 | 5 | 23.8 | 1.8 | 25 17 | 20.3 | 4 | 0 | 5 | 26 43 | 21.2 | 3 | 3 | 1 | 28 8 | 22.2 | 3 | 5 | 8 | 29 31 | 23.2 | 12.2 | | | | | | |
| 48 | 1 | 5 | 23 27 | 9 | 9 | 4 | 2 | 24 57 | 9 | 8 | 6 | 9 | 26 26 | 21.0 | 7 | 24.8 | 5 | 27 53 | 9 | 7 | 1 | 2 | 29 18 | 9 | 6 | 3 | 9 | 0 41 | 9 | 5 | | | | | | |
| 49 | 20.9 | 5 | 24 40 | 19.6 | 8.2 | 2 | 2 | 26 11 | 20.6 | 9.1 | 4 | 9 | 27 40 | 7 | 10.1 | 6 | 3.6 | 29 7 | 22.6 | 11.0 | 25.9 | 3 | 0 32 | 23.6 | 9 | 1 | 7.0 | 1 | 55 | 24.6 | 8 | | | | | |
| 50 | 6 | 4 | 25 59 | 20.3 | 5 | 21.9 | 2 | 27 31 | 21.3 | 5 | 1 | 9 | 29 0 | 22.4 | 4 | 4 | 6 | 0 26 | 23.4 | 3 | 6 | 5.4 | 1 | 51 | 24.4 | 12.3 | 26.9 | 1 | 3 | 14 | 25.3 | 13.2 | | | | |
| 51 | 3 | 4 | 27 24 | 21.1 | 9 | 6 | 2 | 28 56 | 22.1 | 8 | 22.8 | 2.0 | 0 25 | 23.2 | 8 | 1 | 7 | 1 52 | 24.2 | 7 | 4 | 5 | 3 | 16 | 25.2 | 6 | 7 | 2 | 4 | 39 | 26.1 | 5 | | | | |
| 52 | 0 | 28.3 | 28 56 | 9 | 9.3 | 3 | 0.2 | 0 27 | 23.0 | 10.2 | 5 | 0 | 1 56 | 24.0 | 11.2 | 23.9 | 8 | 3 | 23 | 25.0 | 12.1 | 2 | 6 | 4 | 47 | 26.0 | 13.0 | 4 | 3 | 6 | 10 | 9 | 9 | | | |
| 53 | 19.7 | 3 | 0 35 | 22.8 | 7 | 0 | 2 | 2 6 | 9 | 6 | 2 | 1 | 3 35 | 9 | 6 | 6 | 9 | 5 1 | 9 | 5 | 24.9 | 7 | 6 | 25 | 9 | 4 | 2 | 7.5 | 7 | 47 | 27.8 | 14.3 | | | | |
| 54 | 4 | 2 | 2 22 | 23.8 | 10.1 | 20.7 | 2 | 3 53 | 24.9 | 11.1 | 21.9 | 1 | 5 21 | 25.9 | 12.0 | 3 | 4.0 | 6 | 46 | 26.9 | 9 | 6 | 8 | 8 | 9 | 27.8 | 8 | 25.9 | 7 | 9 | 31 | 28.8 | 7 | | | |
| 55 | 1 | 2 | 4 19 | 24.9 | 6 | 4 | 2 | 5 49 | 25.9 | 5 | 7 | 2 | 7 16 | 26.9 | 4 | 0 | 1 | 8 | 40 | 27.9 | 13.3 | 3 | 6.0 | 10 | 2 | 28.9 | 14.2 | 6 | 9 | 11 | 22 | 29.9 | 15.1 | | | |
| 56 | 18.7 | 2 | 6 25 | 26.1 | 11.1 | 1 | 2 | 7 54 | 27.0 | 12.0 | 3 | 2 | 9 20 | 28.0 | 9 | 22.6 | 2 | 10 | 43 | 29.0 | 8 | 0 | 2 | 12 | 4 | 29 | 7 | 3 | 8.1 | 13 | 22 | 1.0 | 6 | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 20 21 11 } $\approx 3^\circ$ ARC 305° 17'.7 | | | | | | H. M. S. 20 25 18 } $\approx 4^\circ$ 306° 19'.5 | | | | | | H. M. S. 20 29 25 } $\approx 5^\circ$ 307° 21'.2 | | | | | | H. M. S. 20 33 31 } $\approx 6^\circ$ 308° 22'.7 | | | | | | H. M. S. 20 37 36 } $\approx 7^\circ$ 309° 24'.0 | | | | | | H. M. S. 20 41 41 } $\approx 8^\circ$ 310° 25'.2 | | | | | | | |
|--|----------|----------|----------|-------|----------|--|----------|----------|-------|----------|----------|--|----------|-------|----------|----------|----------|--|-------|----------|----------|----------|----------|--|----------|----------|----------|----------|-------|--|----------|----------|----------|-------|----------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | \times | γ | δ | Π | Σ | \times | γ | δ | Π | Σ | \times | γ | δ | Π | Σ | \times | γ | δ | Π | Σ | \times | γ | δ | Π | Σ | \times | γ | δ | Π | Σ | \times | γ | δ | Π | Σ | | |
| 22 | 1.8 | 6.5 | 14 | 30 | 13.1 | 7.9 | 3.0 | 7.8 | 15 | 41 | 14.1 | 8.9 | 4.1 | 9.1 | 16 | 51 | 15.1 | 9.8 | 5.3 | 10.3 | 18 | 1 | 16.1 | 10.7 | 6.4 | 11.6 | 19 | 11 | 17.1 | 11.7 | 7.5 | 12.8 | 20 | 20 | 18.0 | 12.6 | |
| 23 | 7 | 6 | 14 | 54 | 4 | 8.1 | 2.9 | 8 | 16 | 5 | 4 | 9.0 | 0 | 1 | 17 | 16 | 4 | 10.0 | 2 | 4 | 18 | 27 | 4 | 9 | 3 | 6 | 19 | 36 | 4 | 8 | 5 | 9 | 20 | 45 | 4 | 7 | |
| 24 | 7 | 6 | 15 | 18 | 8 | 2 | 8 | 9 | 16 | 30 | 8 | 2 | 0 | 2 | 17 | 42 | 7 | 1 | 1 | 4 | 18 | 52 | 7 | 11.0 | 3 | 7 | 20 | 2 | 7 | 12.0 | 4 | 13.0 | 21 | 12 | 7 | 9 | |
| 25 | 6 | 7 | 15 | 44 | 14.1 | 4 | 7 | 9 | 16 | 56 | 15.1 | 3 | 3.9 | 2 | 18 | 8 | 16.1 | 3 | 0 | 5 | 19 | 19 | 17.1 | 2 | 2 | 8 | 20 | 29 | 18.0 | 1 | 3 | 1 | 21 | 39 | 19.0 | 13.1 | |
| 26 | 5 | 7 | 16 | 10 | 4 | 6 | 6 | 8 | 0 | 17 | 23 | 4 | 5 | 8 | 3 | 18 | 35 | 4 | 4 | 0 | 6 | 19 | 47 | 4 | 4 | 6.1 | 9 | 20 | 57 | 4 | 3 | 3 | 2 | 22 | 7 | 3 | 2 |
| 27 | 1.4 | 6.8 | 16 | 37 | 8 | 7 | 2.5 | 1 | 17 | 50 | 8 | 7 | 7 | 9.4 | 19 | 3 | 8 | 10.6 | 4.9 | 10.7 | 20 | 15 | 7 | 5 | 0 | 12 | 0 | 21 | 26 | 7 | 5 | 7.2 | 3 | 22 | 36 | 7 | 4 |
| 28 | 3 | 8 | 17 | 5 | 15.1 | 9 | 5 | 1 | 18 | 19 | 16.1 | 8 | 6 | 4 | 19 | 32 | 17.1 | 8 | 8 | 8 | 20 | 44 | 18.1 | 7 | 0 | 1 | 21 | 55 | 19.1 | 6 | 1 | 4 | 23 | 6 | 20.0 | 5 | |
| 29 | 2 | 9 | 17 | 34 | 5 | 9.1 | 4 | 2 | 18 | 48 | 5 | 10.0 | 5 | 5 | 20 | 2 | 5 | 9 | 7 | 8 | 21 | 14 | 4 | 9 | 5.9 | 1 | 22 | 26 | 4 | 8 | 0 | 13.5 | 23 | 37 | 4 | 7 | |
| 30 | 1 | 9 | 18 | 4 | 8 | 2 | 3 | 2 | 19 | 19 | 8 | 2 | 3.4 | 6 | 20 | 32 | 8 | 11.1 | 6 | 9 | 21 | 45 | 8 | 12.0 | 8 | 2 | 22 | 57 | 8 | 13.0 | 0 | 6 | 24 | 9 | 8 | 9 | |
| 31 | 0 | 7.0 | 18 | 35 | 16.2 | 4 | 2.2 | 8.3 | 19 | 50 | 17.2 | 4 | 3 | 9.7 | 21 | 4 | 18.2 | 3 | 5 | 11.0 | 22 | 18 | 19.2 | 2 | 7 | 3 | 23 | 30 | 20.2 | 1 | 6.9 | 7 | 24 | 41 | 21.1 | 14.1 | |
| 32 | 0.9 | 0 | 19 | 8 | 6 | 6 | 1 | 4 | 20 | 23 | 6 | 5 | 2 | 7 | 21 | 37 | 6 | 5 | 4.4 | 1 | 22 | 51 | 6 | 4 | 6 | 12.4 | 24 | 4 | 5 | 3 | 8 | 8 | 25 | 15 | 5 | 2 | |
| 33 | 8 | 1 | 19 | 41 | 17.0 | 8 | 0 | 5 | 20 | 57 | 18.0 | 7 | 1 | 8 | 22 | 11 | 19.0 | 7 | 3 | 2 | 23 | 25 | 20.0 | 6 | 5 | 5 | 24 | 39 | 9 | 5 | 7 | 9 | 25 | 51 | 9 | 4 | |
| 34 | 7 | 1 | 20 | 16 | 4 | 10.0 | 1.8 | 5 | 21 | 32 | 4 | 9 | 0 | 9 | 22 | 47 | 4 | 8 | 2 | 3 | 24 | 1 | 4 | 8 | 5.4 | 7 | 25 | 15 | 21.3 | 7 | 6 | 14.0 | 26 | 27 | 22.3 | 6 | |
| 35 | 5 | 2 | 20 | 52 | 8 | 2 | 7 | 8.6 | 22 | 8 | 8 | 11.1 | 2.9 | 10.0 | 23 | 24 | 8 | 12.0 | 1 | 4 | 24 | 39 | 8 | 13.0 | 3 | 8 | 25 | 52 | 8 | 9 | 5 | 2 | 26 | 5 | 7 | 8 | |
| 36 | 0.4 | 7.3 | 21 | 30 | 18.2 | 4 | 6 | 7 | 22 | 46 | 19.2 | 3 | 8 | 1 | 24 | 3 | 20.2 | 2 | 0 | 11.5 | 25 | 17 | 21.2 | 2 | 2 | 9 | 26 | 31 | 22.2 | 14.1 | 6.4 | 3 | 27 | 44 | 23 | 2 | 15.0 |
| 37 | 3 | 4 | 22 | 9 | 7 | 6 | 5 | 8 | 23 | 26 | 7 | 5 | 7 | 2 | 24 | 43 | 7 | 4 | 3.9 | 6 | 25 | 58 | 7 | 4 | 1 | 13.0 | 27 | 12 | 6 | 3 | 3 | 4 | 28 | 25 | 6 | 2 | |
| 38 | 2 | 4 | 22 | 50 | 19.2 | 8 | 1.4 | 9 | 24 | 8 | 20.2 | 7 | 6 | 3 | 25 | 25 | 21.2 | 7 | 8 | 8 | 26 | 40 | 22.2 | 6 | 0 | 2 | 27 | 55 | 23.1 | 5 | 2 | 14.6 | 29 | 8 | 24.1 | 4 | |
| 39 | 0 | 5 | 23 | 34 | 6 | 11.0 | 2 | 9 | 0 | 24 | 52 | 6 | 12.0 | 2.5 | 10.4 | 26 | 9 | 6 | 9 | 7 | 9 | 27 | 25 | 6 | 8 | 4.9 | 3 | 28 | 39 | 6 | 7 | 1 | 8 | 29 | 53 | 6 | 6 |
| 40 | 29.9 | 7.6 | 24 | 19 | 20.1 | 3 | 1 | 1 | 25 | 38 | 21.1 | 2 | 3 | 6 | 26 | 55 | 22.1 | 13.1 | 5 | 12.0 | 28 | 11 | 23.1 | 14.0 | 8 | 5 | 29 | 26 | 24.1 | 15.0 | 0 | 9 | 0 | 40 | 25.0 | 9 | |
| 41 | 7 | 7 | 25 | 7 | 7 | 5 | 0 | 2 | 26 | 26 | 7 | 4 | 2 | 7 | 27 | 43 | 6 | 4 | 3.4 | 2 | 29 | 0 | 6 | 3 | 6 | 7 | 0 | 15 | 6 | 2 | 5.9 | 15.1 | 1 | 29 | 5 | 16.1 | |
| 42 | 6 | 8 | 25 | 57 | 21.2 | 8 | 0.8 | 4 | 27 | 17 | 22.2 | 7 | 0 | 9 | 28 | 34 | 23.2 | 6 | 3 | 3 | 29 | 50 | 24.1 | 5 | 5 | 8 | 1 | 6 | 25.1 | 4 | 7 | 3 | 2 | 20 | 26.1 | 3 | |
| 43 | 4 | 9 | 26 | 50 | 7 | 12.0 | 7 | 9.5 | 28 | 9 | 7 | 13.0 | 1.9 | 11.0 | 29 | 27 | 7 | 9 | 1 | 5 | 0 | 44 | 7 | 7 | 4.3 | 14.0 | 1 | 59 | 7 | 7 | 6 | 5 | 3 | 13 | 6 | 6 | |
| 44 | 29.3 | 8.1 | 27 | 46 | 22.3 | 3 | 5 | 6 | 29 | 5 | 23.3 | 2 | 7 | 2 | 0 | 23 | 24.3 | 14.1 | 0 | 7 | 1 | 40 | 25.3 | 15.0 | 2 | 2 | 2 | 55 | 26.2 | 9 | 4 | 7 | 4 | 9 | 27.2 | 8 | |
| 45 | 2 | 2 | 28 | 44 | 9 | 6 | 4 | 8 | 0 | 4 | 9 | 5 | 6 | 4 | 1 | 22 | 9 | 4 | 2.8 | 9 | 2 | 39 | 9 | 3 | 1 | 4 | 3 | 54 | 8 | 16.2 | 5.3 | 16.0 | 5 | 8 | 8 | 17.1 | |
| 46 | 0 | 3 | 29 | 47 | 23.5 | 9 | 2 | 9 | 1 | 6 | 24.5 | 8 | 5 | 5 | 2 | 25 | 25.5 | 7 | 7 | 13.1 | 3 | 41 | 26.5 | 6 | 0 | 7 | 4 | 57 | 27.4 | 5 | 2 | 2 | 6 | 11 | 28.4 | 4 | |
| 47 | 28.8 | 4 | 0 | 53 | 24.2 | 13.2 | 0 | 10.1 | 2 | 12 | 25.2 | 14.1 | 3 | 7 | 3 | 30 | 26.2 | 15.0 | 6 | 3 | 4 | 47 | 27.1 | 9 | 3.8 | 9 | 6 | 2 | 28.1 | 8 | 1 | 4 | 7 | 16 | 29.0 | 7 | |
| 48 | 6 | 8.6 | 2 | 2 | 9 | 5 | 29.8 | 3 | 3 | 22 | 9 | 4 | 1 | 9 | 4 | 40 | 8 | 3 | 5 | 5 | 5 | 57 | 8 | 16.2 | 6 | 15.2 | 7 | 12 | 7 | 17.1 | 4.9 | 7 | 8 | 25 | 7 | 18.0 | |
| 49 | 4 | 7 | 3 | 17 | 25.6 | 8 | 7 | 4 | 4 | 36 | 26.6 | 7 | 0.9 | 12.1 | 5 | 54 | 27.5 | 6 | 3 | 7 | 7 | 10 | 28.5 | 5 | 4 | 4 | 8 | 25 | 29.4 | 4 | 8 | 9 | 9 | 39 | 0.4 | 3 | |
| 50 | 2 | 8 | 4 | 36 | 26.3 | 14.1 | 5 | 5 | 5 | 55 | 27.3 | 15.0 | 7 | 2 | 7 | 13 | 28.3 | 9 | 0 | 9 | 8 | 29 | 29.2 | 8 | 3 | 6 | 9 | 43 | 0.2 | 7 | 6 | 17.2 | 10 | 56 | 1.1 | 6 | |
| 51 | 27.9 | 9.0 | 6 | 0 | 27.1 | 5 | 2 | 7 | 7 | 19 | 28.1 | 3 | 5 | 4 | 8 | 36 | 29.0 | 16.2 | 1.8 | 14.2 | 9 | 52 | 29 | 17.2 | 1 | 9 | 11 | 6 | 9 | 18.1 | 4 | 5 | 12 | 18 | 8 | 19.0 | |
| 52 | 7 | 2 | 7 | 30 | 9 | 8 | 0 | 9 | 8 | 49 | 9 | 7 | 3 | 7 | 10 | 5 | 8 | 6 | 6 | 5 | 11 | 20 | 0.8 | 5 | 2.9 | 16.2 | 12 | 33 | 1.7 | 4 | 2 | 9 | 13 | 45 | 2.6 | 3 | |
| 53 | 5 | 4 | 9 | 7 | 28.8 | 15.2 | 28.8 | 11.2 | 10 | 24 | 29.8 | 16.1 | 1 | 13.0 | 11 | 40 | 0.7 | 17.0 | 3 | 8 | 12 | 54 | 1.6 | 9 | 7 | 6 | 14 | 7 | 2.6 | 8 | 3.9 | 18.3 | 15 | 17 | 3.5 | 6 | |
| 54 | 2 | 6 | 10 | 50 | 29.8 | 6 | 5 | 5 | 12 | 6 | 0.7 | 5 | 29.8 | 3 | 13 | 21 | 1.6 | 4 | 1 | 15.2 | 14 | 34 | 2.5 | 18.3 | 4 | 17.0 | 15 | 46 | 3.5 | 19.2 | 7 | 8 | 16 | 56 | 4.4 | 20.0 | |
| 55 | 26.9 | 9 | 12 | 40 | 0.8 | 16.0 | 2 | 8 | 13 | 56 | 1.7 | 9 | 5 | 7 | 15 | 9 | 2.6 | 8 | 0.8 | 6 | 16 | 21 | 3.6 | 7 | 2 | 5 | 17 | 31 | 4.5 | 6 | 5 | 19.3 | 18 | 40 | 5.3 | 4 | |
| 56 | 6 | 10.2 | 14 | 38 | 1.8 | 5 | 27.9 | 12.1 | 15 | 53 | 2.8 | 17.4 | 2 | 14.1 | 17 | 5 | 3.7 | 18.3 | 6 | 16.1 | 18 | 15 | 4.7 | 19.2 | 1.9 | 18.0 | 19 | 24 | 5.6 | 20.0 | 3 | 9 | 20 | 31 | 6.4 | 9 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 20 41 41 } $\approx 8^{\circ}$ ARC 310° 25'.2 | | | | | | H. M. S. 20 45 44 } $\approx 9^{\circ}$ 311° 26'.1 | | | | | | H. M. S. 20 49 48 } $\approx 10^{\circ}$ 312° 26'.9 | | | | | | H. M. S. 20 53 50 } $\approx 11^{\circ}$ 313° 27'.5 | | | | | | H. M. S. 20 57 52 } $\approx 12^{\circ}$ 314° 27'.9 | | | | | | H. M. S. 21 1 53 } $\approx 13^{\circ}$ 315° 28'.1 | | | | | | | |
|--|-----|------|-------|------|------|--|------|-------|------|------|------|---|------|-------|------|------|------|---|------|-------|------|------|------|---|------|-------|------|------|------|--|-------|-------|------|------|------|------|---|
| 11 | 12 | 1 | 2 | 3 | | 11 | 12 | 1 | 2 | 3 | | 11 | 12 | 1 | 2 | 3 | | 11 | 12 | 1 | 2 | 3 | | 11 | 12 | 1 | 2 | 3 | | 11 | 12 | 1 | 2 | 3 | | | |
| Lat. | κ | γ | 8 | Π | σ | κ | γ | 8 | Π | σ | | κ | γ | 8 | Π | σ | | κ | γ | 8 | Π | σ | | κ | γ | 8 | Π | σ | | κ | γ | 8 | Π | σ | | | |
| 22 | 7.5 | 12.8 | 20.20 | 18.0 | 12.6 | 8.7 | 14.0 | 21.28 | 19.0 | 13.5 | | 9.8 | 15.3 | 22.36 | 20.0 | 14.5 | | 11.0 | 16.5 | 23.43 | 20.9 | 15.4 | | 12.1 | 17.7 | 24.49 | 21.9 | 16.3 | | 13.3 | 19.0 | 25.54 | 22.8 | 17.2 | | | |
| 23 | 5 | 9 | 20.45 | 4 | 7 | 6 | 1 | 21.54 | 3 | 7 | | 8 | 4 | 23.2 | 3 | 6 | | 10.9 | 6 | 24.9 | 21.2 | 5 | | 1 | 9 | 25.15 | 22.2 | 4 | 2 | 1 | 26.21 | 23.1 | 4 | | | | |
| 24 | 4 | 13.0 | 21.12 | 7 | 9 | 6 | 2 | 22.21 | 6 | 8 | | 7 | 5 | 23.29 | 6 | 8 | | 9 | 7 | 24.36 | 5 | 7 | | 0 | 18.0 | 25.43 | 5 | 6 | 2 | 2 | 26.49 | 4 | 5 | | | | |
| 25 | 3 | 1 | 21.39 | 19.0 | 13.1 | 5 | 3 | 22.48 | 20.0 | 14.0 | | 7 | 6 | 23.57 | 9 | 9 | | 8 | 9 | 25.4 | 9 | 8 | | 11.9 | 1 | 26.11 | 8 | 7 | 1 | 3 | 27.18 | 8 | 7 | | | | |
| 26 | 3 | 2 | 22.7 | 3 | 2 | 8.4 | 4 | 23.17 | 3 | 1 | | 6 | 15.7 | 24.25 | 21.3 | 15.1 | | 7 | 17.0 | 25.33 | 22.2 | 16.0 | | 9 | 2 | 26.40 | 23.2 | 9 | 1 | 19.5 | 27.47 | 24.1 | 8 | | | | |
| 27 | 7.2 | 3 | 22.36 | 7 | 4 | 4 | 14.5 | 23.46 | 6 | 3 | | 9.5 | 8 | 24.55 | 6 | 2 | | 7 | 1 | 26.3 | 6 | 1 | | 8 | 4 | 27.10 | 5 | 17.1 | 0 | 6 | 28.17 | 4 | 18.0 | | | | |
| 28 | 1 | 4 | 23.6 | 20.0 | 5 | 3 | 6 | 24.16 | 21.0 | 5 | | 4 | 9 | 25.25 | 22.0 | 4 | | 10.6 | 2 | 26.33 | 9 | 3 | | 8 | 18.5 | 27.41 | 9 | 2 | 12.9 | 8 | 28.48 | 8 | 1 | | | | |
| 29 | 0 | 13.5 | 23.37 | 4 | 7 | 2 | 7 | 24.47 | 3 | 6 | | 4 | 16.1 | 25.56 | 3 | 6 | | 5 | 3 | 27.5 | 23.3 | 5 | | 7 | 6 | 28.13 | 24.2 | 4 | 9 | 9 | 29.20 | 25.1 | 3 | | | | |
| 30 | 0 | 6 | 24.9 | 8 | 9 | 8.1 | 9 | 25.19 | 7 | 8 | | 3 | 2 | 26.29 | 7 | 7 | | 5 | 17.5 | 27.37 | 6 | 6 | | 11.6 | 8 | 28.46 | 6 | 6 | 8 | 20.0 | 29.53 | 5 | 5 | | | | |
| 31 | 6.9 | 7 | 24.41 | 21.1 | 14.1 | 1 | 15.0 | 25.52 | 22.1 | 15.0 | | 9.2 | 3 | 27.2 | 23.0 | 9 | | 4 | 6 | 28.11 | 24.0 | 8 | | 6 | 9 | 29.19 | 9 | 7 | 8 | 2 | 0 | 27 | 9 | 6 | | | |
| 32 | 8 | 8 | 25.15 | 5 | 2 | 0 | 1 | 26.26 | 5 | 2 | | 1 | 4 | 27.37 | 4 | 16.1 | | 3 | 8 | 28.46 | 4 | 17.0 | | 5 | 19.1 | 29.54 | 25.3 | 9 | 7 | 4 | 1 | 2 | 26.2 | 8 | | | |
| 33 | 7 | 9 | 25.51 | 9 | 4 | 7.9 | 2 | 27.2 | 9 | 3 | | 1 | 16.6 | 28.12 | 8 | 3 | | 10.3 | 9 | 29.21 | 8 | 2 | | 4 | 2 | 0 | 30 | 7 | 18.1 | 12.6 | 6 | 1 | 38 | 6 | 19.0 | | |
| 34 | 6 | 14.0 | 26.27 | 22.3 | 6 | 8 | 4 | 27.39 | 23.3 | 5 | | 0 | 7 | 28.49 | 24.2 | 4 | | 2 | 18.1 | 29.59 | 25.2 | 4 | | 4 | 4 | 1 | 8 | 26.1 | 3 | 5 | 7 | 2 | 16 | 27.0 | 2 | | |
| 35 | 5 | 2 | 26.5 | 7 | 8 | 7 | 15.5 | 28.17 | 7 | 7 | | 8.9 | 9 | 29.27 | 6 | 6 | | 1 | 2 | 0 | 37 | 6 | 6 | | 11.3 | 6 | 1 | 46 | 5 | 5 | 5 | 9 | 2 | 55 | 4 | 4 | |
| 36 | 6.4 | 3 | 27.44 | 23.2 | 15.0 | 6 | 7 | 28.56 | 24.1 | 9 | | 8 | 17.1 | 0 | 7 | 25.1 | 8 | | 0 | 4 | 1 | 18 | 26.0 | 8 | | 3 | 8 | 2 | 26 | 9 | 7 | 4 | 21.1 | 3 | 35 | 9 | 6 |
| 37 | 3 | 4 | 28.25 | 6 | 2 | 5 | 8 | 29.37 | 6 | 16.1 | | 7 | 2 | 0 | 49 | 5 | 17.0 | 9.9 | 6 | 1 | 59 | 4 | 18.0 | | 2 | 20.0 | 3 | 8 | 27.4 | 9 | 3 | 3 | 4 | 16 | 28.3 | 8 | |
| 38 | 2 | 14.6 | 29.8 | 24.1 | 4 | 7.4 | 16.0 | 0 | 20 | 25.0 | 3 | | 6 | 4 | 1 | 32 | 26.0 | 2 | 8 | 8 | 2 | 43 | 9 | 2 | 1 | 2 | 3 | 52 | 8 | 19.1 | 12.2 | 6 | 5 | 0 | 8 | 20.0 | |
| 39 | 1 | 8 | 29.53 | 6 | 6 | 3 | 2 | 1 | 5 | 5 | 5 | | 5 | 6 | 2 | 17 | 4 | 5 | 7 | 19.0 | 3 | 28 | 27.4 | 4 | 0 | 4 | 4 | 37 | 28.3 | 3 | 2 | 8 | 5 | 45 | 29.2 | 2 | |
| 40 | 0 | 9 | 0 | 40 | 25.0 | 9 | 2 | 4 | 1 | 52 | 26.0 | 8 | 8.4 | 8 | 3 | 4 | 9 | 7 | 6 | 2 | 4 | 14 | 9 | 6 | 10.9 | 6 | 5 | 24 | 8 | 5 | 1 | 22.0 | 6 | 32 | 7 | 4 | |
| 41 | 5.9 | 15.1 | 1 | 29 | 5 | 16.1 | 1 | 6 | 2 | 41 | 5 | 17.0 | 3 | 18.0 | 3 | 53 | 27.4 | 9 | 5 | 5 | 5 | 3 | 28.4 | 8 | 8 | 9 | 6 | 13 | 29.3 | 7 | 0 | 3 | 7 | 21 | 0.2 | 6 | |
| 42 | 7 | 3 | 2 | 20 | 26.1 | 3 | 0 | 8 | 3 | 32 | 27.0 | 2 | 2 | 2 | 44 | 28.0 | 18.1 | 9.4 | 7 | 5 | 54 | 9 | 19.0 | | 7 | 21.1 | 7 | 4 | 8 | 9 | 11.9 | 5 | 8 | 13 | 7 | 8 | |
| 43 | 6 | 5 | 3 | 13 | 6 | 6 | 6.8 | 17.0 | 4 | 26 | 6 | 5 | 1 | 4 | 5 | 38 | 5 | 4 | 3 | 9 | 6 | 48 | 29.4 | 3 | 6 | 3 | 7 | 58 | 0.3 | 20.2 | 8 | 8 | 9 | 6 | 1.3 | 21.1 | |
| 44 | 4 | 7 | 4 | 9 | 27.2 | 8 | 7 | 2 | 5 | 22 | 28.2 | 7 | 7.9 | 7 | 6 | 34 | 29.1 | 6 | 2 | 20.1 | 7 | 44 | σ | 5 | 5 | 6 | 8 | 54 | 9 | 4 | 7 | 23.1 | 10 | 2 | 8 | 3 | |
| 45 | 5.3 | 16.0 | 5 | 8 | 8 | 17.1 | 5 | 5 | 6 | 21 | 7 | 18.0 | 8 | 9 | 7 | 33 | 7 | 9 | 0 | 4 | 8 | 43 | 0.6 | 8 | 10.4 | 9 | 9 | 52 | 1.5 | 7 | 6 | 3 | 11 | 0 | 2.4 | 6 | |
| 46 | 2 | 2 | 6 | 11 | 28.4 | 4 | 4 | 7 | 7 | 24 | 29.3 | 3 | 6 | 19.2 | 8 | 35 | 0.3 | 19.1 | 8.9 | 7 | 9 | 45 | 1.2 | 20.1 | 3 | 22.2 | 10 | 54 | 2.1 | 21.0 | 5 | 6 | 12 | 2 | 3.0 | 9 | |
| 47 | 1 | 4 | 7 | 16 | 29.0 | 7 | 6.3 | 18.0 | 8 | 29 | σ | 6 | 5 | 5 | 9 | 40 | 9 | 4 | 8 | 21.0 | 10 | 50 | 8 | 3 | 1 | 5 | 11 | 59 | 7 | 2 | 11.4 | 9 | 13 | 6 | 6 | 22.1 | |
| 48 | 4.9 | 7 | 8 | 25 | 7 | 18.0 | 2 | 3 | 9 | 38 | 0.6 | 9 | 7.4 | 8 | 10 | 49 | 1.5 | 7 | 7 | 3 | 11 | 59 | 2.4 | 6 | 0 | 9 | 13 | 7 | 3.3 | 5 | 3 | 24.3 | 14 | 14 | 4.2 | 4 | |
| 49 | 8 | 9 | 9 | 39 | 0.4 | 3 | 0 | 6 | 10 | 51 | 1.3 | 19.2 | 3 | 20.1 | 12 | 1 | 2.2 | 20.0 | 5 | 7 | 13 | 10 | 3.1 | 9 | 9.8 | 23.3 | 14 | 18 | 4.0 | 8 | 1 | 7 | 15 | 25 | 9 | 7 | |
| 50 | 6 | 17.2 | 10 | 56 | 1.1 | 6 | 5.8 | 9 | 12 | 8 | 2.0 | 5 | 1 | 5 | 13 | 18 | 9 | 3 | 8.4 | 22.1 | 14 | 26 | 8 | 21.2 | 7 | 7 | 15 | 34 | 7 | 22.1 | 0 | 25.2 | 16 | 40 | 5.6 | 23.0 | |
| 51 | 4 | 5 | 12 | 18 | 8 | 19.0 | 6 | 19.3 | 13 | 29 | 7 | 8 | 6.9 | 9 | 14 | 38 | 3.6 | 6 | 2 | 5 | 15 | 46 | 4.5 | 5 | 5 | 24.1 | 16 | 53 | 5.4 | 4 | 10.8 | 7 | 17 | 58 | 6.3 | 4 | |
| 52 | 2 | 9 | 13 | 45 | 2.6 | 3 | 4 | 7 | 14 | 55 | 3.5 | 20.1 | 7 | 21.3 | 16 | 4 | 4.4 | 21.0 | 0 | 23.0 | 17 | 11 | 5.3 | 9 | 3 | 6 | 18 | 17 | 6.2 | 7 | 6 | 26.2 | 19 | 21 | 7.1 | 7 | |
| 53 | 3.9 | 18.3 | 15 | 17 | 3.5 | 6 | 2 | 20.1 | 16 | 27 | 4.4 | 5 | 6 | 8 | 17 | 34 | 5.3 | 4 | 7.9 | 5 | 18 | 41 | 6.1 | 22.2 | 1 | 25.1 | 19 | 45 | 7.0 | 23.1 | 5 | 8 | 20 | 49 | 9 | 24.0 | |
| 54 | 7 | 8 | 16 | 56 | 4.4 | 20.0 | 0 | 6 | 18 | 4 | 5.3 | 9 | 4 | 22.3 | 19 | 10 | 6.2 | 8 | 7 | 24.1 | 20 | 16 | 7.0 | 6 | 0 | 7 | 21 | 19 | 9 | 5 | 3 | 27.4 | 22 | 22 | 8.7 | 3 | |
| 55 | 5 | 19.3 | 18 | 40 | 5.3 | 4 | 4.8 | 21.1 | 19 | 47 | 6.2 | 21.3 | 2 | 9 | 20 | 52 | 7.1 | 22.2 | 5 | 7 | 21 | 56 | 9 | 23.0 | 8.9 | 26.4 | 22 | 59 | 8.8 | 9 | 2 | 28.1 | 24 | 0 | 9.6 | 7 | |
| 56 | 3 | 9 | 20 | 31 | 6.4 | 9 | 6 | 7 | 21 | 36 | 7.2 | 8 | 0 | 23.6 | 22 | 40 | 8.1 | 6 | 3 | 25.4 | 23 | 43 | 8.9 | 4 | 7 | 27.2 | 24 | 44 | 9.8 | 24.4 | 0 | 9 | 25 | 43 | 10.6 | 25.1 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 21 5 53 } $\approx 14^\circ$ ARC 316° 28'.2 | | | | | | H. M. S. 21 9 52 } $\approx 15^\circ$ 317° 28'.0 | | | | | | H. M. S. 21 13 51 } $\approx 16^\circ$ 318° 27'.7 | | | | | | H. M. S. 21 17 49 } $\approx 17^\circ$ 319° 27'.2 | | | | | | H. M. S. 21 21 46 } $\approx 18^\circ$ 320° 26'.6 | | | | | | H. M. S. 21 25 43 } $\approx 19^\circ$ 321° 25'.7 | | | | | | | |
|--|-----------|----------|----------|-------|----------|--|----------|----------|-------|----------|-----------|---|----------|-------|----------|-----------|----------|---|-------|----------|-----------|----------|-------|---|----------|-----------|----------|-------|-------|---|-----------|----------|----------|-------|----------|------|--|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | \propto | γ | δ | Π | Σ | \propto | γ | δ | Π | Σ | \propto | γ | δ | Π | Σ | \propto | γ | Π | Π | Σ | \propto | γ | Π | Π | Σ | \propto | γ | Π | Π | Σ | \propto | γ | Π | Π | Σ | | |
| 22 | 14.4 | 20.2 | 26.59 | 23.7 | 18.1 | 15.5 | 21.4 | 28.4 | 24.7 | 19.0 | 16.7 | 22.6 | 29.8 | 25.6 | 19.9 | 17.8 | 23.7 | 0.11 | 26.5 | 20.9 | 19.0 | 24.9 | 1.14 | 27.4 | 21.8 | 20.1 | 26.1 | 2.16 | 28.3 | 22.7 | | | | | | | |
| 23 | 3 | 3 | 27.27 | 24.0 | 3 | 5 | 5 | 28.31 | 25.0 | 2 | 6 | 7 | 29.35 | 9 | 20.1 | 8 | 9 | 0.39 | 8 | 21.0 | 18.9 | 25.1 | 1.42 | 7 | 9 | 1 | 3 | 2.44 | 6 | 8 | | | | | | | |
| 24 | 3 | 4 | 27.55 | 4 | 4 | 4 | 6 | 28.59 | 3 | 3 | 6 | 9 | 0.4 | 26.2 | 2 | 7 | 24.1 | 1 | 7 | 27.1 | 1 | 9 | 2 | 2 | 10 | 28.1 | 22.0 | 0 | 4 | 3 | 13 | 29.0 | 23.0 | | | | |
| 25 | 2 | 6 | 28.23 | 7 | 6 | 4 | 8 | 29.28 | 6 | 5 | 6 | 23.0 | 0.33 | 6 | 4 | 7 | 2 | 1 | 36 | 5 | 3 | 9 | 4 | 2 | 40 | 4 | 2 | 0 | 6 | 3 | 42 | 3 | 1 | | | | |
| 26 | 2 | 7 | 28.53 | 25.0 | 7 | 15.3 | 9 | 29.58 | 26.0 | 6 | 5 | 2 | 1 | 3 | 9 | 5 | 7 | 4 | 2 | 6 | 8 | 4 | 8 | 6 | 3 | 10 | 7 | 3 | 0 | 8 | 4 | 12 | 6 | 3 | | | |
| 27 | 14.1 | 9 | 29.23 | 4 | 9 | 3 | 22.1 | 0.28 | 3 | 8 | 16.5 | 3 | 1 | 33 | 27.2 | 7 | 17.6 | 5 | 2 | 37 | 28.1 | 21.6 | 8 | 8 | 3 | 41 | 29.1 | 5 | 19.9 | 27.0 | 4 | 43 | Σ | 4 | | | |
| 28 | 1 | 21.0 | 29.54 | 7 | 19.0 | 2 | 3 | 1 | 0 | 7 | 20.0 | 4 | 5 | 2 | 5 | 6 | 9 | 6 | 7 | 3 | 9 | 5 | 8 | 18.7 | 26.0 | 4 | 12 | 4 | 7 | 9 | 2 | 5 | 15 | 0.3 | 23.6 | | |
| 29 | 0 | 2 | 0.26 | 26.1 | 2 | 2 | 4 | 1 | 32 | 27.0 | 1 | 4 | 7 | 2 | 37 | 9 | 21.0 | 5 | 9 | 3 | 42 | 8 | 9 | 7 | 2 | 4 | 45 | 7 | 8 | 9 | 4 | 5 | 48 | 6 | 7 | | |
| 30 | 0 | 3 | 1 | 0 | 4 | 4 | 15.1 | 6 | 2 | 5 | 4 | 3 | 3 | 9 | 3 | 11 | 28.3 | 2 | 5 | 25.1 | 4 | 15 | 29.2 | 22.1 | 6 | 4 | 5 | 19 | 0.1 | 23.0 | 8 | 6 | 6 | 22 | 1.0 | 9 | |
| 31 | 13.9 | 5 | 1 | 34 | 8 | 5 | 1 | 8 | 2 | 40 | 7 | 5 | 3 | 24.1 | 3 | 45 | 6 | 4 | 4 | 3 | 4 | 50 | 5 | 3 | 6 | 6 | 5 | 54 | 5 | 2 | 8 | 8 | 6 | 57 | 4 | 24.1 | |
| 32 | 9 | 7 | 2 | 9 | 27.2 | 7 | 0 | 23.0 | 3 | 15 | 28.1 | 6 | 16.2 | 3 | 4 | 21 | 29.0 | 5 | 17.4 | 5 | 5 | 25 | 9 | 4 | 6 | 8 | 6 | 29 | 8 | 3 | 19.7 | 28.0 | 7 | 33 | 7 | 2 | |
| 33 | 8 | 9 | 2 | 45 | 6 | 9 | 0 | 2 | 3 | 51 | 5 | 8 | 2 | 5 | 4 | 57 | 4 | 7 | 3 | 7 | 6 | 2 | 0.3 | 6 | 18.5 | 27.0 | 7 | 6 | 1.2 | 5 | 7 | 3 | 8 | 9 | 2.1 | 4 | |
| 34 | 7 | 22.1 | 3 | 23 | 28.0 | 20.1 | 14.9 | 4 | 4 | 29 | 9 | 21.0 | 1 | 7 | 5 | 35 | 8 | 9 | 3 | 26.0 | 6 | 40 | 7 | 8 | 5 | 2 | 7 | 44 | 6 | 7 | 7 | 5 | 8 | 47 | 5 | 6 | |
| 35 | 7 | 3 | 4 | 2 | 4 | 3 | 9 | 6 | 5 | 8 | 29.3 | 2 | 0 | 9 | 6 | 14 | 0.2 | 22.1 | 2 | 2 | 7 | 19 | 1.1 | 23.0 | 4 | 5 | 8 | 23 | 2.0 | 9 | 6 | 8 | 9 | 26 | 9 | 8 | |
| 36 | 13.6 | 5 | 4 | 42 | 8 | 5 | 8 | 8 | 5 | 49 | 7 | 4 | 0 | 25.1 | 6 | 55 | 6 | 3 | 2 | 4 | 7 | 59 | 5 | 2 | 4 | 7 | 9 | 4 | 4 | 24.1 | 19.6 | 29.0 | 10 | 7 | 3.3 | 9 | |
| 37 | 5 | 7 | 5 | 24 | 29.2 | 7 | 7 | 24.0 | 6 | 31 | 0.2 | 6 | 15.9 | 4 | 7 | 37 | 1.0 | 5 | 17.1 | 7 | 8 | 41 | 9 | 4 | 18.4 | 28.0 | 9 | 45 | 8 | 3 | 5 | 3 | 10 | 49 | 7 | 25.1 | |
| 38 | 4 | 9 | 6 | 8 | 7 | 9 | 7 | 3 | 7 | 14 | 6 | 8 | 9 | 6 | 8 | 20 | 5 | 7 | 1 | 27.0 | 9 | 25 | 2.4 | 6 | 3 | 2 | 10 | 29 | 3.3 | 5 | 5 | 6 | 11 | 32 | 4.2 | 3 | |
| 39 | 4 | 23.2 | 6 | 53 | 0.2 | 21.1 | 14.6 | 5 | 8 | 0 | 1.1 | 22.0 | 8 | 9 | 9 | 5 | 9 | 9 | 0 | 2 | 10 | 10 | 8 | 8 | 3 | 5 | 11 | 14 | 7 | 7 | 4 | 8 | 12 | 17 | 6 | 5 | |
| 40 | 13.3 | 4 | 7 | 40 | 6 | 3 | 5 | 8 | 8 | 47 | 6 | 2 | 7 | 26.1 | 9 | 52 | 2.4 | 23.1 | 0 | 5 | 10 | 57 | 3.3 | 24.0 | 2 | 8 | 12 | 1 | 4.2 | 9 | 19.4 | 0.1 | 13 | 4 | 5.1 | 7 | |
| 41 | 2 | 7 | 8 | 29 | 1.1 | 5 | 4 | 25.1 | 9 | 36 | 2.1 | 4 | 6 | 4 | 10 | 41 | 9 | 3 | 16.9 | 8 | 11 | 46 | 8 | 2 | 18.2 | 29.1 | 12 | 50 | 7 | 25.1 | 3 | 4 | 13 | 53 | 6 | 26.0 | |
| 42 | 1 | 24.0 | 9 | 20 | 6 | 7 | 4 | 4 | 10 | 26 | 6 | 6 | 15.6 | 7 | 11 | 32 | 3.5 | 5 | 8 | 28.1 | 12 | 37 | 4.4 | 4 | 1 | 4 | 13 | 40 | 5.2 | 3 | 3 | 7 | 14 | 43 | 6.1 | 2 | |
| 43 | 0 | 3 | 10 | 13 | 2.2 | 22.0 | 14.3 | 7 | 11 | 20 | 3.1 | 9 | 5 | 27.0 | 12 | 25 | 4.0 | 7 | 7 | 4 | 13 | 30 | 9 | 6 | 1 | 7 | 14 | 33 | 8 | 5 | 2 | 1.1 | 15 | 36 | 6 | 4 | |
| 44 | 12.9 | 6 | 11 | 9 | 7 | 2 | 2 | 26.0 | 12 | 15 | 6 | 23.1 | 5 | 3 | 13 | 21 | 5 | 24.0 | 6 | 7 | 14 | 25 | 5.4 | 9 | 0 | 8 | 15 | 28 | 6.3 | 8 | 19.2 | 5 | 16 | 31 | 7.2 | 6 | |
| 45 | 9 | 8 | 12 | 7 | 3.3 | 5 | 1 | 3 | 13 | 13 | 4.2 | 4 | 4 | 6 | 14 | 18 | 5.1 | 2 | 16.6 | 29.0 | 15 | 22 | 6.0 | 25.1 | 17.9 | 0.4 | 16 | 25 | 9 | 26.0 | 1 | 9 | 17 | 28 | 7 | 9 | |
| 46 | 8 | 25.1 | 13 | 9 | 9 | 8 | 0 | 6 | 14 | 14 | 8 | 6 | 15.3 | 28.0 | 15 | 19 | 7 | 4 | 5 | 4 | 16 | 23 | 6 | 3 | 8 | 8 | 17 | 25 | 7.4 | 2 | 1 | 2.3 | 18 | 27 | 8.3 | 27.1 | |
| 47 | 7 | 5 | 14 | 13 | 4.5 | 23.0 | 13.9 | 27.0 | 15 | 18 | 5.4 | 8 | 2 | 4 | 16 | 22 | 6.3 | 7 | 5 | 8 | 17 | 26 | 7.2 | 6 | 7 | 1.2 | 18 | 28 | 8.0 | 4 | 0 | 7 | 19 | 29 | 9 | 3 | |
| 48 | 5 | 9 | 15 | 20 | 5.1 | 2 | 8 | 4 | 16 | 25 | 6.0 | 24.1 | 1 | 8 | 17 | 28 | 9 | 25.0 | 4 | 0.3 | 18 | 31 | 8 | 8 | 6 | 7 | 19 | 33 | 6 | 7 | 18.9 | 3.2 | 20 | 34 | 9.5 | 6 | |
| 49 | 12.4 | 26.3 | 16 | 30 | 8 | 5 | 7 | 8 | 17 | 35 | 7 | 4 | 0 | 29.3 | 18 | 38 | 7.5 | 3 | 16.3 | 8 | 19 | 40 | 8.4 | 26.1 | 5 | 2.2 | 20 | 41 | 9.3 | 27.0 | 8 | 7 | 21 | 42 | 10.1 | 9 | |
| 50 | 3 | 8 | 17 | 44 | 6.5 | 8 | 6 | 28.3 | 18 | 48 | 7.4 | 7 | 14.9 | 8 | 19 | 51 | 8.2 | 6 | 2 | 1.3 | 20 | 53 | 9.1 | 4 | 17.5 | 8 | 21 | 53 | 10.0 | 3 | 7 | 4.3 | 22 | 53 | 8 | 28.2 | |
| 51 | 2 | 27.3 | 19 | 3 | 7.2 | 24.2 | 13.5 | 8 | 20 | 6 | 8.1 | 25.0 | 7 | 0.4 | 21 | 8 | 9 | 9 | 0 | 9 | 22 | 9 | 8 | 8 | 4 | 3.4 | 23 | 9 | 6 | 6 | 6 | 9 | 24 | 8 | 11.5 | 5 | |
| 52 | 0 | 8 | 20 | 25 | 8.0 | 5 | 3 | 29.4 | 21 | 27 | 8 | 4 | 6 | 1.0 | 22 | 28 | 9.6 | 26.2 | 15.9 | 2.5 | 23 | 29 | 10.5 | 27.1 | 3 | 4.0 | 24 | 28 | 11.3 | 9 | 18.5 | 5.5 | 25 | 26 | 12.2 | 8 | |
| 53 | 11.9 | 28.4 | 21 | 52 | 8 | 8 | 2 | 8 | 22 | 53 | 9.6 | 7 | 5 | 6 | 23 | 53 | 10.4 | 6 | 8 | 3.2 | 24 | 53 | 11.3 | 4 | 2 | 7 | 25 | 51 | 12.1 | 28.2 | 5 | 6.2 | 26 | 48 | 13.0 | 29.2 | |
| 54 | 7 | 29.1 | 23 | 23 | 9.6 | 25.2 | 0 | 0.7 | 24 | 24 | 10.5 | 26.0 | 14.4 | 2.3 | 25 | 23 | 11.2 | 9 | 7 | 4.0 | 26 | 21 | 12.1 | 7 | 1 | 5.5 | 27 | 18 | 13.0 | 6 | 4 | 7.0 | 28 | 14 | 8 | 5 | |
| 55 | 6 | 8 | 25 | 0 | 10.5 | 6 | 12.9 | 1.5 | 25 | 59 | 11.3 | 4 | 3 | 3.1 | 26 | 57 | 12.1 | 27.3 | 6 | 8 | 27 | 54 | 13.0 | 28.1 | 16.9 | 6.4 | 28 | 50 | 8 | 29.0 | 3 | 9 | 29 | 45 | 14.6 | 8 | |
| 56 | 4 | 0.7 | 26 | 42 | 11.4 | 26.0 | 7 | 2.4 | 27 | 40 | 12.2 | 9 | 1 | 4.1 | 28 | 36 | 13.0 | 7 | 5 | 5.8 | 29 | 32 | 9 | 5 | 7 | 7.4 | 0.26 | 14 | 7 | 4 | 1 | 8.9 | 1 | 20 | 15.5 | 0.2 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 21 25 43 } $\approx 19^\circ$ ARC 321° 25' 7 | | | | | | H. M. S. 21 29 39 } $\approx 20^\circ$ 322° 24' 7 | | | | | | H. M. S. 21 33 34 } $\approx 21^\circ$ 323° 23' 5 | | | | | | H. M. S. 21 37 29 } $\approx 22^\circ$ 324° 22' 2 | | | | | | H. M. S. 21 41 23 } $\approx 23^\circ$ 325° 20' 6 | | | | | | H. M. S. 21 45 16 } $\approx 24^\circ$ 326° 19' 0 | | | | | | | | |
|---|------|------|-------|------|------|---|------|-------|------|------|------|---|-------|------|------|------|------|---|-------|------|------|------|-------|---|------|------|------|-------|-------|---|------|------|---|------|------|---|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | | | |
| Lat. | X | Y | P | P | S | X | Y | P | P | S | X | Y | P | S | S | X | Y | P | S | S | X | Y | P | S | S | X | Y | P | S | S | X | Y | P | S | S | | | |
| 22 | 20.1 | 26.1 | 2 16 | 28.3 | 22.7 | 21.2 | 27.2 | 3 17 | 29.2 | 23.6 | 22.4 | 28.4 | 4 18 | 0.1 | 24.5 | 23.5 | 29.5 | 5 19 | 1.0 | 25.4 | 24.6 | 0.7 | 6 19 | 1.9 | 26.3 | 25.7 | 1.8 | 7 18 | 2.8 | 27.2 | | | | | | | | |
| 23 | 1 | 3 | 2 44 | 6 | 8 | 2 | 4 | 3 46 | 5 | 7 | 3 | 6 | 4 47 | 4 | 6 | 5 | 7 | 5 47 | 3 | 5 | 6 | 8 | 6 47 | 2.2 | 4 | 7 | 2.0 | 7 47 | 3.1 | 3 | | | | | | | | |
| 24 | 0 | 4 | 3 13 | 29.0 | 23.0 | 2 | 6 | 4 15 | 9 | 9 | 3 | 8 | 5 16 | 8 | 8 | 4 | 9 | 6 17 | 7 | 7 | 6 | 1.0 | 7 17 | 5 | 6 | 7 | 2 | 8 16 | 4 | 5 | | | | | | | | |
| 25 | 0 | 6 | 3 42 | 3 | 1 | 1 | 8 | 4 44 | 0.2 | 24.0 | 3 | 29.0 | 5 46 | 1.1 | 9 | 4 | 0.1 | 6 46 | 2.0 | 8 | 6 | 2 | 7 47 | 9 | 7 | 7 | 4 | 8 46 | 7 | 6 | | | | | | | | |
| 26 | 0 | 8 | 4 12 | 6 | 3 | 1 | 28.0 | 5 14 | 5 | 2 | 3 | 2 | 6 16 | 4 | 25.1 | 4 | 3 | 7 17 | 3 | 26.0 | 5 | 4 | 8 17 | 3.2 | 9 | 7 | 6 | 9 17 | 4.1 | 8 | | | | | | | | |
| 27 | 19.9 | 27.0 | 4 43 | S | 4 | 21.1 | 2 | 5 45 | 9 | 3 | 22.2 | 4 | 6 47 | 7 | 2 | 23.4 | 5 | 7 48 | 6 | 1 | 24.5 | 7 | 8 49 | 5 | 27.0 | 25.7 | 8 | 9 49 | 4 | 9 | | | | | | | | |
| 28 | 9 | 2 | 5 15 | 0.3 | 23.6 | 0 | 4 | 6 17 | 1.2 | 5 | 2 | 6 | 7 19 | 2.1 | 4 | 3 | 7 | 8 21 | 3.0 | 3 | 5 | 9 | 9 21 | 9 | 2 | 7 | 3.1 | 10 21 | 7 | 28.1 | | | | | | | | |
| 29 | 9 | 4 | 5 48 | 6 | 7 | 0 | 6 | 6 50 | 5 | 6 | 2 | 8 | 7 52 | 4 | 5 | 3 | 1.0 | 8 53 | 3 | 4 | 5 | 2.1 | 9 54 | 4.2 | 3 | 6 | 3 | 10 54 | 5.1 | 2 | | | | | | | | |
| 30 | 8 | 6 | 6 22 | 1.0 | 9 | 0 | 8 | 7 24 | 9 | 8 | 1 | 8 | 8 26 | 8 | 7 | 3 | 2 | 9 27 | 7 | 26.6 | 5 | 4 | 10 28 | 6 | 5 | 6 | 6 | 11 28 | 4 | 4 | | | | | | | | |
| 31 | 8 | 8 | 6 57 | 4 | 24.1 | 20.9 | 29.0 | 7 59 | 2.3 | 25.0 | 1 | 0.2 | 9 1 | 3.1 | 9 | 3 | 4 | 10 2 | 4.0 | 7 | 4 | 6 | 11 3 | 9 | 6 | 6 | 8 | 12 3 | 8 | 5 | | | | | | | | |
| 32 | 19.7 | 28.0 | 7 33 | 7 | 2 | 9 | 3 | 8 35 | 6 | 1 | 22.1 | 5 | 9 37 | 5 | 26.0 | 23.2 | 7 | 10 38 | 4 | 9 | 24.4 | 9 | 11 38 | 5.3 | 8 | 25.6 | 4.1 | 12 38 | 6.2 | 7 | | | | | | | | |
| 33 | 7 | 3 | 8 9 | 2.1 | 4 | 9 | 5 | 9 12 | 3.0 | 3 | 0 | 7 | 10 14 | 9 | 2 | 2 | 2.0 | 11 15 | 8 | 27.1 | 4 | 3.2 | 12 15 | 7 | 28.0 | 6 | 4 | 13 15 | 5 | 9 | | | | | | | | |
| 34 | 7 | 5 | 8 47 | 5 | 6 | 8 | 8 | 9 50 | 4 | 5 | 0 | 1.0 | 10 52 | 4.3 | 4 | 2 | 2 | 11 53 | 5.2 | 2 | 4 | 5 | 12 53 | 6.1 | 1 | 5 | 7 | 13 53 | 9 | 29.0 | | | | | | | | |
| 35 | 6 | 8 | 9 26 | 9 | 8 | 8 | 8 | 10 29 | 8 | 6 | 0 | 3 | 11 31 | 7 | 5 | 2 | 5 | 12 32 | 6 | 4 | 3 | 7 | 13 33 | 5 | 3 | 5 | 5.0 | 14 32 | 7.3 | 2 | | | | | | | | |
| 36 | 19.6 | 29.0 | 10 7 | 3.3 | 9 | 20.8 | 0.3 | 11 10 | 4.2 | 8 | 21.9 | 6 | 12 11 | 5.1 | 7 | 1 | 8 | 13 13 | 6.0 | 6 | 3 | 4.0 | 14 14 | 9 | 4 | 5 | 3 | 15 13 | 7 | 4 | | | | | | | | |
| 37 | 5 | 3 | 10 49 | 7 | 25.1 | 7 | 5 | 11 51 | 6 | 26.0 | 9 | 8 | 12 53 | 5 | 9 | 23.1 | 3.0 | 13 55 | 4 | 8 | 24.3 | 3 | 14 55 | 7.3 | 6 | 25.5 | 6 | 15 54 | 8.2 | 6 | | | | | | | | |
| 38 | 5 | 6 | 11 32 | 4.2 | 3 | 7 | 8 | 12 35 | 5.1 | 2 | 9 | 2.1 | 13 37 | 6.0 | 27.1 | 1 | 3 | 14 38 | 8 | 28.0 | 3 | 6 | 15 38 | 7 | 8 | 5 | 9 | 16 38 | 6 | 7 | | | | | | | | |
| 39 | 4 | 8 | 12 17 | 6 | 5 | 6 | 1.1 | 13 20 | 5 | 4 | 8 | 4 | 14 22 | 4 | 3 | 0 | 7 | 15 23 | 7.3 | 2 | 2 | 9 | 16 23 | 8.2 | 29.0 | 4 | 6.3 | 17 22 | 9.0 | 9 | | | | | | | | |
| 40 | 19.4 | 0.1 | 13 4 | 5.1 | 7 | 20.6 | 4 | 14 7 | 6.0 | 6 | 8 | 7 | 15 8 | 9 | 5 | 0 | 4.0 | 16 9 | 7 | 4 | 2 | 5.3 | 17 9 | 6 | 2 | 4 | 6 | 18 8 | 5 | 0.1 | | | | | | | | |
| 41 | 3 | 4 | 13 53 | 6 | 26.0 | 5 | 7 | 14 55 | 5 | 8 | 21.7 | 3.0 | 15 56 | 7.4 | 7 | 0 | 4 | 16 57 | 8.2 | 6 | 24.2 | 7 | 17 57 | 9.1 | 4 | 4 | 7.0 | 18 56 | 9 | 3 | | | | | | | | |
| 42 | 3 | 7 | 14 43 | 6.1 | 2 | 5 | 2.1 | 15 45 | 7.0 | 27.1 | 7 | 4 | 16 47 | 9 | 9 | 22.9 | 8 | 17 46 | 7 | 8 | 1 | 6.1 | 18 46 | 6 | 6 | 25.4 | 4 | 19 45 | 10.4 | 5 | | | | | | | | |
| 43 | 2 | 1.1 | 15 36 | 6 | 4 | 4 | 5 | 16 38 | 5 | 3 | 6 | 8 | 17 38 | 8.4 | 28.2 | 9 | 5.2 | 18 38 | 9.2 | 29.0 | 1 | 5 | 19 37 | 10.1 | 8 | 4 | 8 | 20 36 | 9 | 7 | | | | | | | | |
| 44 | 19.2 | 5 | 16 31 | 7.2 | 6 | 20.4 | 9 | 17 32 | 8.1 | 5 | 6 | 4.2 | 18 32 | 9 | 4 | 8 | 6 | 19 32 | 8 | 3 | 1 | 9 | 20 31 | 6 | S | 3 | 8.2 | 21 29 | 11.5 | 1.0 | | | | | | | | |
| 45 | 1 | 9 | 17 28 | 7 | 9 | 3 | 3.3 | 18 29 | 6 | 8 | 5 | 6 | 19 29 | 9.5 | 6 | 8 | 6.0 | 20 28 | 10.3 | 5 | 24.1 | 7.3 | 21 27 | 11.2 | 0.2 | 3 | 6 | 22 25 | 12.0 | 2 | | | | | | | | |
| 46 | 1 | 2.3 | 18 27 | 8.3 | 27.1 | 3 | 7 | 19 28 | 9.2 | 28.0 | 21.5 | 5.0 | 20 28 | 10.0 | 8 | 7 | 5 | 21 27 | 9 | 7 | 0 | 8 | 22 25 | 7 | 5 | 3 | 9.1 | 23 22 | 6 | 4 | | | | | | | | |
| 47 | 0 | 7 | 19 29 | 9 | 3 | 2 | 4.2 | 20 29 | 8 | 2 | 5 | 5 | 21 29 | 6 | 29.0 | 22.7 | 7.0 | 22 28 | 11.5 | S | 0 | 8.3 | 23 25 | 12.3 | 7 | 25.3 | 6 | 24 22 | 13.1 | 6 | | | | | | | | |
| 48 | 18.9 | 3.2 | 20 34 | 9.5 | 6 | 20.2 | 7 | 21 34 | 10.4 | 4 | 4 | 6.0 | 22 33 | 11.2 | 3 | 7 | 5 | 23 31 | 12.1 | 0.2 | 0 | 8 | 24 28 | 9 | 1.0 | 3 | 10.2 | 25 24 | 7 | 9 | | | | | | | | |
| 49 | 8 | 7 | 21 42 | 10.1 | 9 | 1 | 5.2 | 22 41 | 11.0 | 7 | 4 | 6 | 23 40 | 8 | 6 | 6 | 8.0 | 24 37 | 7 | 4 | 23.9 | 9.4 | 25 34 | 13.5 | 3 | 2 | 8 | 26 30 | 14.3 | 2.1 | | | | | | | | |
| 50 | 7 | 4.3 | 22 53 | 8 | 28.2 | 0 | 8 | 23 52 | 6 | 29.0 | 3 | 7.2 | 24 49 | 12.5 | 9 | 6 | 6 | 25 46 | 13.3 | 7 | 9 | 10.0 | 26 42 | 14.1 | 6 | 2 | 11.4 | 27 38 | 9 | 4 | | | | | | | | |
| 51 | 6 | 9 | 24 8 | 11.5 | 5 | 0 | 6.4 | 25 5 | 12.3 | 3 | 21.3 | 8 | 26 2 | 13.1 | S | 0.2 | 6 | 9.2 | 26 59 | 14.0 | 1.0 | 9 | 6 | 27 54 | 8 | 9 | 25.2 | 12.1 | 28 49 | 15.6 | 7 | | | | | | | |
| 52 | 18.5 | 5.5 | 25 26 | 12.2 | 8 | 19.9 | 7.1 | 26 23 | 13.0 | 7 | 2 | 8.5 | 27 19 | 8 | 5 | 22.5 | 9 | 28 14 | 7 | 4 | 8 | 11.3 | 29 9 | 15.5 | 2.2 | 1 | 8 | 0 | 3 | 16.3 | 3.1 | | | | | | | |
| 53 | 5 | 6.2 | 26 48 | 13.0 | 29.2 | 8 | 8 | 27 44 | 8 | S | 1 | 9.3 | 28 39 | 14.6 | 8 | 4 | 10.7 | 29 34 | 15.4 | 7 | 23.8 | 12.1 | 0 | 27 | 16.2 | 4 | 1 | 13.6 | 120 | 17.0 | 4 | | | | | | | |
| 54 | 4 | 7.0 | 28 14 | 8 | 5 | 7 | 8.6 | 29 9 | 14.6 | 0.3 | 0 | 10.1 | 0 | 3 | 15.4 | 1.1 | 3 | 11.6 | 0 | 57 | 16.2 | 2.0 | 7 | 13.0 | 1 | 49 | 17.0 | 7 | 0 | 14.5 | 2 41 | 7 | 7 | | | | | |
| 55 | 3 | 9 | 29 45 | 14.6 | 8 | 6 | 9.5 | 0 | 39 | 15.4 | 7 | 20.9 | 11.0 | 1 | 32 | 16.2 | 5 | 3 | 12.5 | 2 | 24 | 17.0 | 3 | 6 | 14.0 | 3 | 15 | 7 | 3.1 | 24.9 | 15.5 | 4 | 6 | 18.5 | 4.0 | | | |
| 56 | 1 | 8.9 | S | 120 | 15.5 | S | 5 | 10.5 | 2 | 12 | 16.2 | 1.1 | 9 | 12.0 | 3 | 4 | 17.0 | 9 | 2 | 13.5 | 3 | 55 | 8 | 7 | 5 | 15.1 | 4 | 45 | 18.5 | 5 | 9 | 16.6 | 5 | 35 | 19.3 | 4 | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 21 49 8 } $\approx 25^\circ$ ARC 327° 17.1 | | | | | | H. M. S. 21 53 0 } $\approx 26^\circ$ 328° 15.1 | | | | | | H. M. S. 21 56 52 } $\approx 27^\circ$ 329° 12.9 | | | | | | H. M. S. 22 0 42 } $\approx 28^\circ$ 330° 10.6 | | | | | | H. M. S. 22 4 33 } $\approx 29^\circ$ 331° 8.1 | | | | | | H. M. S. 22 8 22 } $\approx 0^\circ$ 332° 5.5 | | | | | | |
|---|------|------|-------|---------|------|---|------|-------|---------|------|------|--|-------|---------|------|-----|------|---|------|------|-----|------|-------|--|------|-----|------|-------|---------|---|----|----|----|-----|-----|--|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | |
| Lat. | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | |
| 22 | 26.9 | 2.9 | 8.17 | 3.7 | 28.1 | 28.0 | 4.1 | 9.16 | 4.6 | 29.0 | 29.1 | 5.1 | 10.14 | 5.4 | 29.9 | 0.2 | 6.2 | 11.12 | 6.3 | 0.8 | 1.3 | 7.3 | 12.9 | 7.2 | 1.7 | 2.4 | 8.4 | 13.6 | 8.0 | 2.6 | | | | | | |
| 23 | 8 | 3.1 | 8.46 | 4.0 | 2 | 0 | 3 | 9.45 | 9 | 1 | 1 | 3 | 10.43 | 7 | 9 | 2 | 5 | 11.41 | 6 | 9 | 3 | 6 | 12.38 | 5 | 8 | 4 | 7 | 13.35 | 3 | 7 | | | | | | |
| 24 | 8 | 3 | 9.15 | 3 | 4 | 0 | 5 | 10.14 | 5.2 | 3 | 1 | 6 | 11.12 | 6.0 | 0.2 | 2 | 7 | 12.10 | 9 | 1.0 | 3 | 8 | 13.8 | 8 | 9 | 4 | 9 | 14.4 | 6 | 8 | | | | | | |
| 25 | 8 | 5 | 9.46 | 6 | 5 | 0 | 7 | 10.44 | 5 | 4 | 1 | 8 | 11.43 | 4 | 3 | 2 | 9 | 12.40 | 7.2 | 2 | 3 | 8.0 | 13.38 | 8.1 | 2.1 | 4 | 9 | 14.35 | 9.0 | 3.0 | | | | | | |
| 26 | 8 | 8 | 10.17 | 5.0 | 28.6 | 0 | 9 | 11.15 | 8 | 29.5 | 1 | 6.0 | 12.13 | 7 | 4 | 2 | 7.1 | 13.11 | 6 | 3 | 3 | 3 | 14.9 | 4 | 2 | 4 | 4 | 15.6 | 3 | 1 | | | | | | |
| 27 | 26.8 | 4.0 | 10.48 | 3 | 8 | 27.9 | 5.1 | 11.47 | 6.2 | 7 | 29.1 | 3 | 12.45 | 7.0 | 6 | 0.2 | 4 | 13.43 | 9 | 5 | 1.3 | 5 | 14.40 | 7 | 4 | 2.5 | 6 | 15.37 | 6 | 3 | | | | | | |
| 28 | 8 | 2 | 11.20 | 6 | 9 | 9 | 4 | 12.19 | 5 | 8 | 1 | 5 | 13.17 | 4 | 7 | 2 | 7 | 14.15 | 8.2 | 1.6 | 3 | 8 | 15.13 | 9.1 | 5 | 5 | 9 | 16.9 | 9 | 4 | | | | | | |
| 29 | 8 | 5 | 11.53 | 6.0 | 29.1 | 9 | 6 | 12.52 | 8 | 9 | 1 | 8 | 13.51 | 7 | 9 | 2 | 9 | 14.48 | 6 | 8 | 3 | 9.0 | 15.46 | 4 | 7 | 5 | 10.2 | 16.43 | 10.3 | 3.5 | | | | | | |
| 30 | 8 | 7 | 12.27 | 3 | 3 | 9 | 9 | 13.26 | 7.2 | 0.1 | 1 | 7.0 | 14.25 | 8.1 | 1.0 | 2 | 8.2 | 15.22 | 9 | 9 | 3 | 3 | 16.20 | 8 | 8 | 5 | 4 | 17.16 | 6 | 7 | | | | | | |
| 31 | 8 | 5.0 | 13.2 | 7 | 4 | 9 | 6.2 | 14.1 | 5 | 3 | 1 | 3 | 14.59 | 4 | 2 | 2 | 5 | 15.57 | 9.3 | 2.1 | 4 | 6 | 16.54 | 10.1 | 3.0 | 5 | 7 | 17.51 | 11.0 | 8 | | | | | | |
| 32 | 26.7 | 3 | 13.38 | 7.0 | 6 | 27.9 | 4 | 14.37 | 9 | 5 | 29.1 | 6 | 15.35 | 8 | 3 | 0.2 | 8 | 16.33 | 6 | 2 | 1.4 | 9 | 17.30 | 5 | 1 | 2.5 | 11.1 | 18.27 | 3 | 4.0 | | | | | | |
| 33 | 7 | 6 | 14.15 | 4 | 7 | 9 | 7 | 15.14 | 8.3 | 6 | 1 | 9 | 16.12 | 9.2 | 5 | 2 | 9 | 17.10 | 10.0 | 4 | 4 | 10.2 | 18.7 | 9 | 3 | 5 | 4 | 19.3 | 7 | 1 | | | | | | |
| 34 | 7 | 9 | 14.53 | 8 | 9 | 9 | 7.0 | 15.51 | 7 | 8 | 1 | 8.2 | 16.50 | 5 | 1.7 | 2 | 4 | 17.47 | 4 | 5 | 4 | 5 | 18.44 | 11.2 | 4 | 5 | 7 | 19.41 | 12.1 | 3 | | | | | | |
| 35 | 7 | 6.2 | 15.32 | 8.2 | 0.1 | 9 | 3 | 16.30 | 9.1 | 1.0 | 0 | 5 | 17.28 | 9 | 8 | 2 | 7 | 18.26 | 8 | 7 | 4 | 9 | 19.23 | 6 | 3.6 | 5 | 12.0 | 20.19 | 5 | 5 | | | | | | |
| 36 | 7 | 5 | 16.12 | 6 | 2 | 9 | 7 | 17.10 | 5 | 1 | 0 | 8 | 18.8 | 10.3 | 9 | 2 | 10.0 | 19.6 | 11.2 | 9 | 4 | 11.2 | 20.3 | 12.0 | 8 | 5 | 4 | 20.59 | 9 | 4.6 | | | | | | |
| 37 | 26.7 | 8 | 16.54 | 9.0 | 4 | 27.8 | 8.0 | 17.52 | 9 | 3 | 29.0 | 9.2 | 18.50 | 7 | 2.1 | 0.2 | 4 | 19.47 | 6 | 3.1 | 1.4 | 6 | 20.44 | 4 | 9 | 2.6 | 8 | 21.40 | 13.3 | 7 | | | | | | |
| 38 | 6 | 7.1 | 17.37 | 4 | 6 | 8 | 3 | 18.35 | 10.3 | 5 | 0 | 6 | 19.32 | 11.2 | 3 | 2 | 8 | 20.29 | 12.0 | 2 | 4 | 9 | 21.26 | 8 | 4.1 | 6 | 13.1 | 22.22 | 7 | 9 | | | | | | |
| 39 | 6 | 4 | 18.21 | 9 | 8 | 8 | 6 | 19.19 | 7 | 7 | 0 | 9 | 20.16 | 6 | 5 | 2 | 11.1 | 21.13 | 4 | 4 | 4 | 12.3 | 22.10 | 13.3 | 3 | 6 | 5 | 23.6 | 14.1 | 5.1 | | | | | | |
| 40 | 6 | 8 | 19.7 | 10.3 | 1.0 | 8 | 9.0 | 20.5 | 11.2 | 9 | 0 | 10.3 | 21.2 | 12.0 | 7 | 2 | 5 | 21.59 | 9 | 6 | 4 | 7 | 22.55 | 7 | 5 | 6 | 9 | 23.50 | 5 | 3 | | | | | | |
| 41 | 6 | 8.2 | 19.54 | 8 | 2 | 8 | 4 | 20.52 | 6 | 2.1 | 0 | 7 | 21.49 | 5 | 9 | 2 | 9 | 22.45 | 13.3 | 8 | 4 | 13.1 | 23.41 | 14.2 | 7 | 6 | 14.3 | 24.37 | 15.0 | 5 | | | | | | |
| 42 | 26.6 | 6 | 20.43 | 11.3 | 4 | 27.8 | 8 | 21.41 | 12.1 | 3 | 29.0 | 11.1 | 22.38 | 13.0 | 3.1 | 0.2 | 12.3 | 23.34 | 8 | 4.0 | 1.4 | 6 | 24.29 | 6 | 9 | 2.6 | 8 | 25.24 | 4 | 7 | | | | | | |
| 43 | 6 | 9.0 | 21.34 | 8 | 6 | 8 | 10.2 | 22.31 | 6 | 5 | 0 | 5 | 23.28 | 5 | 3 | 2 | 8 | 24.24 | 14.3 | 2 | 4 | 14.1 | 25.19 | 15.1 | 5.1 | 6 | 15.3 | 26.14 | 9 | 9 | | | | | | |
| 44 | 5 | 4 | 22.27 | 12.3 | 8 | 8 | 7 | 23.24 | 13.1 | 7 | 0 | 12.0 | 24.20 | 14.0 | 5 | 2 | 13.3 | 25.16 | 8 | 4 | 4 | 6 | 26.11 | 6 | 3 | 6 | 8 | 27.5 | 16.4 | 6.1 | | | | | | |
| 45 | 5 | 9 | 23.22 | 8 | 2.0 | 8 | 11.2 | 24.18 | 7 | 9 | 0 | 5 | 25.14 | 5 | 7 | 2 | 8 | 26.10 | 15.3 | 7 | 5 | 15.1 | 27.4 | 16.1 | 5 | 7 | 16.3 | 27.58 | 9 | 3 | | | | | | |
| 46 | 5 | 10.4 | 24.19 | 13.4 | 2 | 7 | 7 | 25.15 | 14.2 | 3.1 | 0 | 13.0 | 26.10 | 15.0 | 9 | 2 | 14.3 | 27.5 | 8 | 9 | 5 | 6 | 28.0 | 6 | 7 | 7 | 8 | 28.53 | 17.4 | 5 | | | | | | |
| 47 | 26.5 | 9 | 25.19 | 9 | 5 | 27.7 | 12.2 | 26.14 | 8 | 3 | 29.0 | 6 | 27.9 | 6 | 4.2 | 0.2 | 9 | 28.4 | 16.4 | 5.1 | 1.5 | 16.2 | 28.57 | 17.2 | 9 | 2.7 | 17.4 | 29.50 | 18.1 | 7 | | | | | | |
| 48 | 4 | 11.5 | 26.21 | 14.5 | 7 | 7 | 8 | 27.15 | 15.3 | 6 | 0 | 14.2 | 28.10 | 16.1 | 4 | 2 | 15.5 | 29.4 | 9 | 3 | 5 | 8 | 29.57 | 7 | 6.1 | 7 | 18.0 | 0.44 | 8 | 7.0 | | | | | | |
| 49 | 4 | 12.1 | 27.25 | 15.1 | 3.0 | 7 | 13.4 | 28.19 | 9 | 9 | 0 | 8 | 29.13 | 7 | 7 | 2 | 16.1 | 0 | 7 | 17.5 | 5 | 5 | 17.4 | 0.59 | 18.3 | 3 | 7 | 6 | 18.1 | 19.1 | 2 | | | | | |
| 50 | 4 | 8 | 28.32 | 7 | 3 | 7 | 14.1 | 29.26 | 16.5 | 4.1 | 0 | 15.5 | 0 | 19.17.3 | 5.0 | 2 | 8 | 1 | 18.1 | 8 | 5 | 18.1 | 2.4 | 9 | 6 | 8 | 19.3 | 2.55 | 7 | 5 | | | | | | |
| 51 | 4 | 13.5 | 29.42 | 16.4 | 6 | 7 | 8 | 0 | 36.17.1 | 4 | 28.9 | 16.2 | 12.8 | 9 | 3 | 2 | 17.5 | 2.20 | 7 | 6.1 | 5 | 8 | 3 | 11.19.5 | 9 | 8 | 20.0 | 4 | 120.4 | 8 | | | | | | |
| 52 | 26.4 | 14.2 | 0 | 56.17.1 | 9 | 27.7 | 15.6 | 1.48 | 8 | 7 | 9 | 17.0 | 2.40 | 18.6 | 6 | 0.2 | 18.3 | 3.31 | 19.4 | 4 | 1.5 | 19.6 | 4.21 | 20.1 | 7.2 | 2.8 | 8 | 5 | 11.21.0 | 8.1 | | | | | | |
| 53 | 3 | 15.0 | 2 | 12.8 | 4.2 | 6 | 16.4 | 3 | 4 | 18.5 | 5.0 | 9 | 8 | 3.54 | 19.3 | 8 | 2 | 19.2 | 4.44 | 20.1 | 7 | 5 | 20.5 | 5.34 | 8 | 5 | 8 | 21.7 | 6.23 | 7 | 4 | | | | | |
| 54 | 3 | 9 | 3 | 32.18.5 | 5 | 6 | 17.3 | 4 | 23.19.3 | 3 | 9 | 18.7 | 5 | 12.20.0 | 6.1 | 2 | 20.1 | 6.2 | 8 | 7.0 | 6 | 21.5 | 6.50 | 21.5 | 8 | 9 | 22.7 | 7.38 | 22.4 | 6 | | | | | | |
| 55 | 3 | 16.9 | 4 | 56.19.3 | 8 | 6 | 18.3 | 5 | 45.20.1 | 6 | 9 | 19.7 | 6 | 34.8 | 4 | 2 | 21.1 | 7.22 | 21.6 | 3 | 6 | 22.5 | 8 | 10.22.3 | 8.1 | 9 | 23.5 | 8.57 | 23.1 | 9 | | | | | | |
| 56 | 3 | 18.0 | 6 | 24.20.1 | 5.2 | 6 | 19.4 | 7 | 12.9 | 6.0 | 9 | 20.8 | 7 | 59.21.6 | 8 | 2 | 22.2 | 8.46 | 22.4 | 7 | 6 | 23.6 | 9 | 33.23.1 | 5 | 9 | 25.0 | 10.18 | 9 | 9.2 | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 22 8 22 } \propto 0° ARC 332° 5'.5 | | | | | | H. M. S. 22 12 11 } \propto 1° 333° 2'.8 | | | | | | H. M. S. 22 16 0 } \propto 2° 333° 59'.9 | | | | | | H. M. S. 22 19 47 } \propto 3° 334° 56'.8 | | | | | | H. M. S. 22 23 35 } \propto 4° 335° 53'.7 | | | | | | H. M. S. 22 27 22 } \propto 5° 336° 50'.4 | | | | | | | | | | | | | |
|---|-----|-----|----|-----|------|--|-----|-----|-----|-----|------|--|------|------|-----|----|------|---|------|------|-----|----|------|---|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|------|---|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | | | | |
| Lat. | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | | | | | | | | |
| 22 | 2.4 | 8.4 | 13 | 6 | 8.0 | 2.6 | 3.5 | 9.5 | 14 | 2 | 8.9 | 3.5 | 4.6 | 10.6 | 14 | 58 | 9.7 | 4.4 | 5.7 | 11.6 | 15 | 54 | 10.6 | 5.3 | 6.8 | 12.7 | 16 | 49 | 11.5 | 6.1 | 7.9 | 13.7 | 17 | 44 | 12.3 | 7.0 | | | | | | | |
| 23 | 4 | 7 | 13 | 35 | 3 | 7 | 5 | 7 | 14 | 31 | 9.2 | 6 | 6 | 8 | 15 | 27 | 10.0 | 5 | 7 | 9 | 16 | 23 | 9 | 4 | 8 | 9 | 17 | 18 | 8 | 3 | 9 | 14 | 0 | 18 | 13 | 6 | 2 | | | | | | |
| 24 | 4 | 9 | 14 | 4 | 6 | 8 | 5 | 10 | 0 | 15 | 1 | 5 | 7 | 6 | 11 | 1 | 15 | 57 | 4 | 6 | 8 | 12 | 1 | 16 | 53 | 11.2 | 5 | 9 | 13 | 2 | 17 | 48 | 12.1 | 4 | 9 | 2 | 18 | 42 | 9 | 3 | | | |
| 25 | 4 | 9 | 1 | 14 | 35 | 9.0 | 3.0 | 6 | 2 | 15 | 31 | 8 | 9 | 6 | 3 | 16 | 27 | 7 | 8 | 8 | 4 | 17 | 23 | 5 | 6 | 9 | 4 | 18 | 18 | 4 | 5 | 8 | 0 | 5 | 19 | 13 | 13.2 | 4 | | | | | |
| 26 | 4 | 4 | 15 | 6 | 3 | 1 | 6 | 5 | 16 | 2 | 10.1 | 4.0 | 7 | 6 | 16 | 58 | 11.0 | 9 | 5.8 | 6 | 17 | 54 | 8 | 8 | 6.9 | 7 | 18 | 49 | 7 | 6.7 | 0 | 8 | 19 | 43 | 5 | 7.6 | | | | | | | |
| 27 | 2.5 | 6 | 15 | 37 | 6 | 3 | 3.6 | 7 | 16 | 34 | 5 | 1 | 4.7 | 8 | 17 | 29 | 3 | 5.0 | 8 | 9 | 18 | 25 | 12.2 | 9 | 9 | 14 | 0 | 19 | 20 | 13.0 | 8 | 0 | 15 | 0 | 20 | 15 | 9 | 7 | | | | | |
| 28 | 5 | 9 | 16 | 9 | 9 | 4 | 6 | 11 | 0 | 17 | 6 | 8 | 3 | 7 | 12 | 1 | 18 | 2 | 6 | 2 | 8 | 13 | 2 | 18 | 57 | 5 | 6.1 | 9 | 3 | 19 | 52 | 3 | 9 | 1 | 3 | 20 | 47 | 14.2 | 8 | | | | |
| 29 | 5 | 10 | 2 | 16 | 43 | 10.3 | 3.5 | 6 | 3 | 17 | 39 | 11.1 | 4 | 7 | 4 | 18 | 35 | 12.0 | 3 | 9 | 5 | 19 | 30 | 8 | 2 | 7.0 | 6 | 20 | 25 | 7 | 7.1 | 1 | 6 | 21 | 20 | 5 | 8.0 | | | | | | |
| 30 | 5 | 4 | 17 | 16 | 6 | 7 | 6 | 6 | 18 | 13 | 5 | 4.6 | 7 | 7 | 19 | 9 | 3 | 5 | 5.9 | 8 | 20 | 4 | 13.2 | 3 | 0 | 9 | 20 | 59 | 14.0 | 2 | 8.1 | 9 | 21 | 53 | 8 | 1 | | | | | | | |
| 31 | 5 | 7 | 17 | 51 | 11.0 | 8 | 6 | 9 | 18 | 47 | 8 | 7 | 8 | 13 | 0 | 19 | 43 | 7 | 5.6 | 9 | 14 | 1 | 20 | 38 | 5 | 5 | 0 | 15 | 2 | 21 | 33 | 3 | 4 | 2 | 16 | 2 | 22 | 28 | 15.2 | 2 | | | |
| 32 | 2.5 | 11 | 1 | 18 | 27 | 3 | 4.0 | 3.6 | 12 | 2 | 19 | 23 | 12.2 | 9 | 4.8 | 3 | 20 | 19 | 13.0 | 7 | 9 | 4 | 21 | 14 | 9 | 6.6 | 1 | 5 | 22 | 9 | 7 | 5 | 2 | 6 | 23 | 3 | 5 | 4 | | | | | |
| 33 | 5 | 4 | 19 | 3 | 7 | 1 | 7 | 5 | 19 | 59 | 6 | 5.0 | 8 | 6 | 20 | 55 | 4 | 9 | 9 | 7 | 21 | 50 | 14.2 | 8 | 1 | 8 | 22 | 45 | 15.1 | 7.6 | 2 | 9 | 23 | 39 | 9 | 8.5 | | | | | | | |
| 34 | 5 | 7 | 19 | 41 | 12.1 | 3 | 7 | 8 | 20 | 37 | 9 | 2 | 8 | 9 | 21 | 32 | 8 | 6.0 | 6 | 0 | 15 | 0 | 22 | 27 | 6 | 9 | 7 | 1 | 16 | 1 | 23 | 22 | 4 | 8 | 3 | 17 | 2 | 24 | 16 | 16.2 | 7 | | |
| 35 | 5 | 12 | 0 | 20 | 19 | 5 | 5 | 7 | 13 | 2 | 21 | 15 | 13.3 | 3 | 8 | 14 | 3 | 22 | 11 | 14.1 | 2 | 0 | 4 | 23 | 5 | 15.0 | 7.1 | 2 | 5 | 24 | 0 | 8 | 9 | 8.3 | 6 | 24 | 54 | 6 | 8 | | | | |
| 36 | 5 | 4 | 20 | 59 | 9 | 4.6 | 3.7 | 5 | 21 | 55 | 7 | 5 | 4.9 | 7 | 22 | 50 | 5 | 4 | 0 | 8 | 23 | 44 | 4 | 2 | 2 | 9 | 24 | 39 | 16.2 | 8.1 | 3 | 18 | 0 | 25 | 33 | 17.0 | 9.0 | | | | | | |
| 37 | 2.6 | 8 | 21 | 40 | 13.3 | 7 | 7 | 9 | 22 | 35 | 14.1 | 7 | 9 | 15 | 0 | 23 | 30 | 9 | 5 | 0 | 16 | 2 | 24 | 25 | 8 | 4 | 2 | 17 | 3 | 25 | 19 | 6 | 3 | 4 | 4 | 26 | 13 | 4 | 1 | | | | |
| 38 | 6 | 13 | 1 | 22 | 22 | 7 | 9 | 7 | 14 | 3 | 23 | 17 | 5 | 8 | 9 | 4 | 24 | 12 | 15.3 | 7 | 0 | 6 | 25 | 6 | 16.2 | 6 | 3 | 7 | 26 | 0 | 17.0 | 4 | 4 | 8 | 26 | 54 | 8 | 3 | | | | | |
| 39 | 6 | 5 | 23 | 6 | 14.1 | 5.1 | 8 | 6 | 24 | 1 | 9 | 6.0 | 9 | 8 | 24 | 55 | 8 | 9 | 6.1 | 17 | 0 | 25 | 49 | 6 | 8 | 7.3 | 18 | 1 | 26 | 43 | 4 | 6 | 5 | 19 | 2 | 27 | 36 | 18.2 | 5 | | | | |
| 40 | 6 | 9 | 23 | 50 | 5 | 3 | 3.8 | 15 | 0 | 24 | 45 | 15.4 | 2 | 5 | 0 | 16 | 2 | 25 | 40 | 16.2 | 7.1 | 1 | 4 | 26 | 33 | 17.0 | 9 | 3 | 5 | 27 | 27 | 8 | 8 | 8.5 | 6 | 28 | 20 | 6 | 9.6 | | | | |
| 41 | 6 | 14 | 3 | 24 | 37 | 15.0 | 5 | 8 | 4 | 25 | 31 | 8 | 4 | 0 | 6 | 26 | 25 | 6 | 3 | 1 | 9 | 27 | 19 | 5 | 8.1 | 4 | 19 | 0 | 28 | 12 | 18.3 | 9.0 | 6 | 20 | 1 | 29 | 5 | 19.1 | 7 | | | | |
| 42 | 2.6 | 8 | 25 | 24 | 4 | 7 | 8 | 9 | 26 | 19 | 16.3 | 6 | 0 | 17 | 1 | 27 | 12 | 17.1 | 5 | 1 | 18 | 4 | 28 | 6 | 9 | 3 | 4 | 5 | 28 | 59 | 7 | 2 | 6 | 6 | 29 | 51 | 5 | 9 | | | | | |
| 43 | 6 | 15 | 3 | 26 | 14 | 9 | 9 | 8 | 16 | 4 | 27 | 8 | 7 | 8 | 1 | 6 | 28 | 1 | 6 | 7 | 2 | 9 | 28 | 55 | 18.4 | 5 | 5 | 20 | 0 | 29 | 47 | 19.2 | 4 | 7 | 21 | 1 | 0 | 39 | 20.0 | 10.1 | | | |
| 44 | 6 | 8 | 27 | 5 | 16.4 | 6.1 | 3.9 | 9 | 27 | 59 | 17.2 | 7.0 | 5.1 | 18 | 1 | 28 | 52 | 18.1 | 9 | 6.2 | 19 | 4 | 29 | 45 | 9 | 7 | 7.5 | 5 | 0 | 37 | 7 | 6 | 7 | 6 | 1 | 28 | 5 | 3 | | | | | |
| 45 | 7 | 16 | 3 | 27 | 58 | 9 | 3 | 9 | 17 | 4 | 28 | 51 | 7 | 2 | 1 | 6 | 29 | 44 | 6 | 8.1 | 2 | 9 | 0 | 36 | 19.4 | 9 | 5 | 21 | 1 | 1 | 28 | 20.2 | 8 | 8.8 | 22 | 2 | 19 | 9 | 5 | | | | |
| 46 | 7 | 8 | 28 | 53 | 17.4 | 5 | 9 | 18 | 0 | 29 | 46 | 18.2 | 4 | 2 | 19 | 2 | 0 | 38 | 19.1 | 3 | 3 | 20 | 5 | 1 | 30 | 9 | 9.2 | 6 | 7 | 2 | 21 | 7 | 10.0 | 8 | 8 | 3 | 12 | 21.4 | 7 | | | | |
| 47 | 2.7 | 17 | 4 | 29 | 50 | 18.0 | 7 | 9 | 6 | 0 | 42 | 8 | 6 | 2 | 8 | 1 | 34 | 6 | 4 | 3 | 21 | 1 | 2 | 26 | 20.4 | 4 | 6 | 22 | 3 | 3 | 16 | 21.2 | 2 | 9 | 23 | 4 | 4 | 6 | 22.0 | 9 | | | |
| 48 | 7 | 18 | 0 | 49 | 5 | 7.0 | 4.0 | 19 | 2 | 1 | 41 | 19.3 | 8 | 5.2 | 20 | 4 | 2 | 32 | 20.1 | 6 | 6 | 4 | 7 | 3 | 23 | 9 | 6 | 6 | 9 | 4 | 13 | 7 | 4 | 9 | 24 | 1 | 5 | 3 | 5 | 11.1 | | | |
| 49 | 7 | 6 | 1 | 51 | 19.1 | 2 | 0 | 9 | 2 | 42 | 9 | 8.1 | 3 | 3 | 21 | 1 | 3 | 33 | 7 | 8 | 4 | 22 | 4 | 23 | 21.4 | 8 | 7.7 | 23 | 6 | 5 | 12 | 22.2 | 6 | 9.0 | 8 | 6 | 2 | 23.1 | 3 | | | | |
| 50 | 8 | 19 | 3 | 2 | 55 | 7 | 5 | 0 | 20 | 6 | 3 | 46 | 20.5 | 3 | 3 | 8 | 4 | 35 | 21.3 | 9.1 | 5 | 23 | 1 | 5 | 25 | 22.0 | 10.0 | 7 | 24 | 3 | 6 | 14 | 8 | 8 | 0 | 25 | 5 | 7 | 2 | 6 | 6 | | |
| 51 | 8 | 20 | 0 | 4 | 1 | 20.4 | 8 | 1 | 21 | 3 | 4 | 51 | 21.1 | 6 | 4 | 22 | 6 | 5 | 40 | 9 | 4 | 5 | 9 | 6 | 29 | 6 | 3 | 8 | 25 | 1 | 7 | 18 | 23.4 | 11.1 | 1 | 26 | 3 | 8 | 5 | 24.2 | 8 | | |
| 52 | 2.8 | 8 | 5 | 11 | 21.0 | 8.1 | 4.1 | 22 | 1 | 6 | 0 | 7 | 9 | 5 | 4 | 23 | 4 | 6 | 48 | 22.5 | 7 | 6 | 6 | 24 | 7 | 7 | 36 | 23.2 | 6 | 9 | 9 | 8 | 24 | 24.0 | 3 | 1 | 27 | 2 | 9 | 11 | 8 | 12.1 | |
| 53 | 8 | 21 | 7 | 6 | 23 | 7 | 4 | 1 | 23 | 0 | 7 | 11 | 22.4 | 9.1 | 5 | 24 | 3 | 7 | 59 | 23.2 | 9 | 7 | 25 | 6 | 8 | 46 | 9 | 8 | 9 | 26 | 8 | 9 | 33 | 6 | 5 | 9 | 2 | 28 | 1 | 10 | 19 | 25.4 | 4 |
| 54 | 9 | 22 | 7 | 38 | 22.4 | 6 | 2 | 24 | 0 | 8 | 25 | 23.1 | 4 | 5 | 25 | 3 | 9 | 12 | 9 | 10.2 | 7 | 26 | 6 | 9 | 59 | 24.6 | 11.0 | 8 | 0 | 27 | 8 | 10 | 44 | 25.3 | 8 | 3 | 29 | 1 | 11 | 30 | 26.1 | 7 | |
| 55 | 9 | 23 | 8 | 5 | 7 | 23.1 | 9 | 2 | 25 | 1 | 9 | 43 | 8 | 7 | 5 | 26 | 4 | 10 | 29 | 24.6 | 5 | 8 | 27 | 7 | 11 | 14 | 25.3 | 3 | 1 | 28 | 9 | 11 | 59 | 26.0 | 12.1 | 4 | 0 | 2 | 12 | 43 | 8 | 13.0 | |
| 56 | 9 | 25 | 0 | 10 | 18 | 9 | 9.2 | 2 | 26 | 3 | 11 | 4 | 24.6 | 10.0 | 6 | 27 | 6 | 11 | 48 | 25.3 | 9 | 9 | 28 | 9 | 12 | 33 | 26.0 | 7 | 2 | 0 | 1 | 13 | 17 | 7 | 5 | 6 | 1 | 4 | 14 | 0 | 27.5 | 3 | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 22 31 8 } \times 6° ARC 337° 47'.0 } | | | | | | H. M. S. 22 34 54 } \times 7° 338° 43'.4 } | | | | | | H. M. S. 22 38 39 } \times 8° 339° 39'.8 } | | | | | | H. M. S. 22 42 24 } \times 9° 340° 36'.0 } | | | | | | H. M. S. 22 46 9 } \times 10° 341° 32'.2 } | | | | | | H. M. S. 22 49 53 } \times 11° 342° 28'.2 } | | | | | | |
|---|----------|----------|-------|----------|--------|--|----------|-------|----------|--------|----------|--|-------|----------|--------|----------|----------|--|----------|--------|----------|----------|-------|--|--------|----------|----------|-------|----------|---|------|------|----|------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | | | | | |
| Lat. | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | | | | | | |
| 22 | 9.0 | 14.8 | 18.38 | 13.2 | 7.9 | 10.1 | 15.8 | 19.32 | 14.0 | 8.8 | 11.2 | 16.8 | 20.26 | 14.9 | 9.7 | 12.2 | 17.9 | 21.19 | 15.7 | 10.6 | 13.3 | 18.9 | 22.13 | 16.5 | 11.5 | 14.4 | 19.9 | 23.6 | 17.4 | 12.4 | | | | | | |
| 23 | 0 | 15.0 | 19.7 | 5 | 8.1 | 1 | 16.1 | 20.1 | 3 | 9 | 2 | 17.1 | 20.55 | 15.2 | 8 | 3 | 18.1 | 21.48 | 16.0 | 7 | 4 | 19.2 | 22.42 | 8 | 6 | 4 | 20.2 | 23.34 | 7 | 5 | | | | | | |
| 24 | 1 | 3 | 19.37 | 8 | 2 | 1 | 3 | 20.31 | 6 | 9.1 | 2 | 4 | 21.25 | 5 | 10.0 | 3 | 4 | 22.18 | 3 | 9 | 4 | 4 | 23.11 | 17.1 | 7 | 5 | 4 | 24 | 4 | 18.0 | 6 | | | | | |
| 25 | 1 | 6 | 20.7 | 14.1 | 3 | 2 | 6 | 21.1 | 9 | 2 | 3 | 7 | 21.55 | 8 | 1 | 3 | 7 | 22.48 | 6 | 11.0 | 4 | 7 | 23.41 | 4 | 9 | 5 | 7 | 24.34 | 3 | 7 | | | | | | |
| 26 | 1 | 8 | 20.38 | 4 | 4 | 2 | 9 | 21.32 | 15.2 | 3 | 3 | 9 | 22.25 | 16.1 | 2 | 12.4 | 19.0 | 23.19 | 9 | 1 | 5 | 20.0 | 24.12 | 7 | 12.0 | 14.6 | 21.0 | 25 | 4 | 6 | 9 | | | | | |
| 27 | 9.1 | 16.1 | 21.9 | 7 | 8.6 | 10.2 | 17.2 | 22.3 | 5 | 5 | 11.3 | 18.2 | 22.57 | 4 | 3 | 4 | 3 | 23.50 | 17.2 | 2 | 13.5 | 3 | 24.43 | 18.0 | 1 | 6 | 3 | 25.35 | 9 | 13.0 | | | | | | |
| 28 | 2 | 4 | 21.41 | 15.0 | 7 | 3 | 5 | 22.35 | 9 | 9.6 | 4 | 5 | 23.29 | 7 | 10.5 | 5 | 6 | 24.22 | 5 | 4 | 6 | 6 | 25.15 | 4 | 2 | 7 | 6 | 26 | 7 | 19.2 | 1 | | | | | |
| 29 | 2 | 7 | 22.14 | 4 | 8 | 3 | 8 | 23.8 | 16.2 | 7 | 4 | 8 | 24.1 | 17.0 | 6 | 5 | 9 | 24.54 | 8 | 11.5 | 6 | 9 | 25.47 | 7 | 4 | 7 | 9 | 26.39 | 5 | 2 | | | | | | |
| 30 | 2 | 17.0 | 22.48 | 7 | 9.0 | 4 | 18.1 | 23.41 | 5 | 9 | 5 | 19.1 | 24.35 | 3 | 7 | 12.6 | 20.2 | 25.27 | 18.2 | 6 | 7 | 21.2 | 26.20 | 19.0 | 12.5 | 14.8 | 22.2 | 27.12 | 8 | 4 | | | | | | |
| 31 | 3 | 3 | 23.22 | 16.0 | 1 | 4 | 4 | 24.16 | 9 | 10.0 | 5 | 4 | 25.9 | 7 | 9 | 6 | 5 | 26.1 | 5 | 7 | 13.7 | 5 | 26.54 | 3 | 6 | 8 | 6 | 27.46 | 20.2 | 13.5 | | | | | | |
| 32 | 9.3 | 7 | 23.57 | 4 | 3 | 10.4 | 7 | 24.50 | 17.2 | 1 | 11.6 | 8 | 25.44 | 18.0 | 11.0 | 7 | 8 | 26.36 | 8 | 9 | 8 | 9 | 27.29 | 7 | 7 | 9 | 9 | 28.20 | 5 | 6 | | | | | | |
| 33 | 4 | 18.0 | 24.33 | 7 | 4 | 5 | 19.1 | 25.26 | 6 | 3 | 6 | 20.1 | 26.19 | 4 | 1 | 7 | 21.2 | 27.12 | 19.2 | 12.0 | 8 | 22.2 | 28 | 4 | 20.0 | 9 | 15.0 | 23.3 | 28.56 | 8 | 8 | | | | | |
| 34 | 4 | 3 | 25.10 | 17.1 | 9.6 | 5 | 4 | 26.3 | 9 | 4 | 7 | 5 | 26.56 | 7 | 3 | 12.8 | 5 | 27.48 | 5 | 2 | 9 | 6 | 28.40 | 4 | 13.0 | 0 | 6 | 29.32 | 21.2 | 9 | | | | | | |
| 35 | 4 | 7 | 25.47 | 4 | 7 | 6 | 8 | 26.40 | 18.3 | 10.6 | 7 | 9 | 27.33 | 19.1 | 4 | 8 | 9 | 28.25 | 9 | 3 | 14.0 | 23.0 | 29.17 | 7 | 2 | 1 | 24.0 | 0 | 9 | 5 | 14.0 | | | | | |
| 36 | 5 | 19.1 | 26.26 | 8 | 9 | 6 | 20.2 | 27.19 | 7 | 7 | 11.8 | 21.3 | 28.12 | 5 | 11.6 | 9 | 22.3 | 29 | 4 | 20.3 | 5 | 0 | 4 | 29.55 | 21.1 | 3 | 1 | 4 | 0.47 | 9 | 2 | | | | | |
| 37 | 9.5 | 5 | 27.6 | 18.2 | 10.0 | 10.7 | 6 | 27.59 | 19.0 | 9 | 8 | 7 | 28.51 | 9 | 7 | 9 | 7 | 29.43 | 7 | 12.6 | 1 | 8 | 0.34 | 5 | 5 | 2 | 8 | 1 | 25 | 22.3 | 3 | | | | | |
| 38 | 6 | 9 | 27.47 | 6 | 2 | 7 | 21.0 | 28.39 | 4 | 11.0 | 9 | 22.1 | 29.31 | 20.3 | 9 | 13.0 | 23.2 | 0.23 | 21.1 | 8 | 2 | 24.2 | 1 | 14 | 8 | 6 | 15.3 | 25.3 | 2 | 5 | 7 | 5 | | | | |
| 39 | 6 | 20.4 | 28.29 | 19.0 | 3 | 8 | 5 | 29.21 | 8 | 2 | 9 | 5 | 0.13 | 7 | 12.1 | 0 | 6 | 1 | 4 | 5 | 9 | 2 | 7 | 1 | 55 | 22.2 | 8 | 4 | 7 | 24.6 | 23.0 | 7 | | | | |
| 40 | 6 | 8 | 29.12 | 4 | 5 | 8 | 9 | 0 | 4 | 20.3 | 4 | 12.0 | 23.0 | 0.56 | 21.1 | 2 | 1 | 24.1 | 1 | 47 | 9 | 13.1 | 14.3 | 25.1 | 2 | 37 | 6 | 14.0 | 4 | 26.2 | 3 | 27 | 4 | 8 | | |
| 41 | 6 | 21.3 | 29.57 | 9 | 7 | 9 | 22.4 | 0.48 | 7 | 6 | 1 | 5 | 1 | 40 | 5 | 4 | 1 | 6 | 2 | 30 | 22.3 | 3 | 4 | 6 | 3 | 21 | 23.1 | 1 | 5 | 7 | 4 | 10 | 8 | 15.0 | | |
| 42 | 9.7 | 8 | 0.43 | 20.3 | 9 | 11.0 | 9 | 1 | 34 | 21.1 | 7 | 1 | 24.0 | 2 | 25 | 9 | 6 | 2 | 25.1 | 3 | 15 | 7 | 5 | 5 | 26.1 | 4 | 5 | 5 | 3 | 6 | 27.3 | 4 | 55 | 24.3 | 2 | |
| 43 | 7 | 22.3 | 1 | 30 | 8 | 11.1 | 0 | 23.4 | 2 | 21 | 6 | 9 | 2 | 5 | 3 | 12 | 22.4 | 8 | 13.3 | 6 | 4 | 2 | 23.1 | 6 | 5 | 6 | 4 | 51 | 9 | 5 | 15.6 | 8 | 5 | 40 | 7 | 3 |
| 44 | 8 | 9 | 2 | 19 | 21.3 | 3 | 1 | 24.0 | 3 | 10 | 12.1 | 2 | 25.0 | 4 | 0 | 8 | 13.0 | 4 | 26.1 | 4 | 50 | 6 | 8 | 6 | 27.2 | 5 | 39 | 24.4 | 7 | 7 | 28.4 | 6 | 28 | 25.2 | 5 | |
| 45 | 9 | 23.4 | 3 | 10 | 7 | 5 | 2 | 5 | 4 | 0 | 5 | 3 | 12.3 | 6 | 4 | 50 | 23.3 | 2 | 4 | 7 | 5 | 39 | 24.1 | 14.0 | 14.6 | 8 | 6 | 28 | 8 | 8 | 8 | 29.0 | 7 | 16 | 6 | 7 |
| 46 | 9 | 24.0 | 4 | 2 | 22.2 | 7 | 2 | 25.1 | 4 | 52 | 23.0 | 5 | 3 | 26.2 | 5 | 41 | 8 | 3 | 5 | 27.3 | 6 | 30 | 6 | 2 | 7 | 28.4 | 7 | 18 | 25.3 | 15.0 | 9 | 6 | 8 | 6 | 26.1 | 8 |
| 47 | 10.0 | 6 | 4 | 56 | 7 | 9 | 11.3 | 7 | 5 | 45 | 5 | 7 | 4 | 8 | 6 | 34 | 24.2 | 5 | 13.6 | 9 | 7 | 23 | 25.1 | 4 | 8 | 29.0 | 8 | 11 | 8 | 2 | 16.0 | 0.3 | 8 | 58 | 6 | 16.0 |
| 48 | 1 | 25.3 | 5 | 52 | 23.2 | 12.1 | 3 | 26.4 | 6 | 41 | 24.0 | 9 | 5 | 27.5 | 7 | 29 | 7 | 7 | 7 | 28.6 | 8 | 17 | 6 | 6 | 9 | 7 | 9 | 5 | 26.3 | 4 | 1 | 9 | 9 | 52 | 27.1 | 2 |
| 49 | 1 | 26.0 | 6 | 50 | 7 | 3 | 4 | 27.1 | 7 | 38 | 5 | 13.1 | 12.6 | 28.2 | 8 | 26 | 25.3 | 9 | 8 | 29.3 | 9 | 13 | 26.1 | 8 | 15.0 | 0.4 | 10 | 0 | 8 | 6 | 2 | 16 | 10 | 47 | 6 | 4 |
| 50 | 2 | 7 | 7 | 50 | 24.3 | 5 | 5 | 8 | 8 | 38 | 25.1 | 3 | 7 | 29.0 | 9 | 25 | 8 | 14.1 | 9 | 0.1 | 10 | 12 | 6 | 15.0 | 1 | 1.2 | 10 | 58 | 27.3 | 8 | 3 | 2.3 | 11 | 44 | 28.1 | 6 |
| 51 | 3 | 27.5 | 8 | 53 | 9 | 8 | 6 | 28.6 | 9 | 40 | 7 | 6 | 8 | 8 | 10 | 26 | 26.4 | 3 | 14.0 | 9 | 11 | 12 | 27.2 | 2 | 2 | 2.0 | 11 | 58 | 9 | 16.1 | 16.4 | 3.1 | 12 | 43 | 7 | 8 |
| 52 | 10.4 | 28.4 | 9 | 58 | 25.5 | 13.0 | 11.7 | 29.5 | 10 | 44 | 26.3 | 9 | 9 | 0.7 | 11 | 30 | 27.0 | 6 | 2 | 1.8 | 12 | 15 | 8 | 5 | 3 | 9 | 13 | 0 | 28.5 | 3 | 6 | 4.0 | 13 | 44 | 29.3 | 17.1 |
| 53 | 5 | 29.3 | 11 | 5 | 26.1 | 2 | 8 | 0.5 | 11 | 50 | 9 | 14.1 | 13.0 | 1.7 | 12 | 35 | 6 | 8 | 3 | 2.8 | 13 | 20 | 28.4 | 7 | 15.5 | 3.9 | 14 | 4 | 29.1 | 5 | 7 | 5.0 | 14 | 48 | 9 | 3 |
| 54 | 6 | 0.3 | 12 | 15 | 8 | 5 | 8 | 1.5 | 12 | 59 | 27.5 | 3 | 1 | 2.7 | 13 | 44 | 28.2 | 15.1 | 4 | 3.8 | 14 | 27 | 29.0 | 16.0 | 6 | 4.9 | 15 | 11 | 7 | 7 | 9 | 6.1 | 15 | 54 | 0.5 | 5 |
| 55 | 7 | 1.4 | 13 | 28 | 27.5 | 8 | 9 | 2.6 | 14 | 11 | 28.2 | 6 | 2 | 3.8 | 14 | 54 | 9 | 4 | 5 | 4.9 | 15 | 37 | 6 | 2 | 8 | 6.0 | 16 | 20 | 0.3 | 17.0 | 17.0 | 7.2 | 17 | 2 | 1.1 | 8 |
| 56 | 8 | 2.6 | 14 | 43 | 28.2 | 14.1 | 12.0 | 3.8 | 15 | 26 | 9 | 9 | 3 | 5.0 | 16 | 8 | 29.6 | 7 | 7 | 6.2 | 16 | 50 | 0.3 | 5 | 9 | 7.3 | 17 | 32 | 10 | 3 | 1 | 8.5 | 18 | 13 | 8 | 18.1 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 22 49 53 } \propto 11° ARC 342° 28'.2 | | | | | | H. M. S. 22 53 37 } \propto 12° 343° 24'.1 | | | | | | H. M. S. 22 57 20 } \propto 13° 344° 20'.0 | | | | | | H. M. S. 23 1 3 } \propto 14° 345° 15'.7 | | | | | | H. M. S. 23 4 46 } \propto 15° 346° 11'.4 | | | | | | H. M. S. 23 8 28 } \propto 16° 347° 7'.0 | | | | | | |
|--|------|------|-------|------|------|--|------|-------|------|------|------|--|-------|-------|------|------|------|--|-------|------|------|------|-------|---|------|------|------|-------|--------|--|----|----|----|-----|-----|--|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | |
| Lat. | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | |
| 22 | 14.4 | 19.9 | 23 6 | 17.4 | 12.4 | 15.4 | 20.9 | 23 59 | 18.2 | 13.3 | 16.5 | 21.9 | 24 50 | 19.0 | 14.2 | 17.6 | 22.9 | 25 42 | 19.9 | 15.1 | 18.6 | 23.9 | 26 34 | 20.7 | 16.0 | 19.7 | 24.8 | 27 26 | 21.6 | 16.9 | | | | | | |
| 23 | 4 | 20.2 | 23 34 | 7 | 5 | 5 | 21.2 | 24 27 | 5 | 4 | 6 | 22.2 | 25 19 | 3 | 3 | 6 | 23.2 | 26 11 | 20.2 | 2 | 7 | 24.1 | 27 3 | 321.0 | 1 | 7 | 25.1 | 27 55 | 8 | 17.0 | | | | | | |
| 24 | 5 | 4 | 24 4 | 18.0 | 6 | 5 | 4 | 24 57 | 8 | 5 | 6 | 5 | 25 49 | 6 | 4 | 7 | 4 | 26 41 | 4 | 3 | 7 | 4 | 27 32 | 3 | 2 | 8 | 4 | 28 24 | 22.1 | 1 | | | | | | |
| 25 | 5 | 7 | 24 34 | 3 | 7 | 6 | 7 | 25 27 | 19.1 | 6 | 7 | 8 | 26 19 | 9 | 5 | 7 | 7 | 27 10 | 7 | 4 | 8 | 7 | 28 2 | 6 | 3 | 9 | 7 | 28 53 | 4 | 2 | | | | | | |
| 26 | 14.6 | 21.0 | 25 4 | 6 | 9 | 6 | 22.0 | 25 57 | 4 | 7 | 16.7 | 23.1 | 26 49 | 20.2 | 14.6 | 17.8 | 24.0 | 27 41 | 21.0 | 15.5 | 9 | 25.0 | 28 32 | 9 | 4 | 9 | 26.0 | 29 24 | 7 | 3 | | | | | | |
| 27 | 6 | 3 | 25 35 | 9 | 13.0 | 15.7 | 3 | 26 28 | 7 | 9 | 8 | 4 | 27 20 | 5 | 8 | 8 | 3 | 28 11 | 3 | 6 | 9 | 3 | 29 3 | 22.2 | 16.5 | 20.0 | 3 | 29 54 | 23.0 | 4 | | | | | | |
| 28 | 7 | 6 | 26 7 | 19.2 | 1 | 7 | 6 | 27 0 | 20.0 | 14.0 | 8 | 7 | 27 51 | 8 | 9 | 9 | 7 | 28 43 | 7 | 8 | 19.0 | 7 | 29 34 | 5 | 6 | 1 | 7 | 0 25 | 3 | 17.5 | | | | | | |
| 29 | 7 | 9 | 26 39 | 5 | 2 | 8 | 9 | 27 32 | 3 | 1 | 9 | 24.0 | 28 23 | 21.2 | 15.0 | 18.0 | 25.0 | 29 15 | 22.0 | 9 | 1 | 26.0 | 0 6 | 8 | 8 | 1 | 27.0 | 0 57 | 6 | 6 | | | | | | |
| 30 | 14.8 | 22.2 | 27 12 | 8 | 4 | 9 | 23.3 | 28 5 | 7 | 2 | 17.0 | 3 | 28 56 | 5 | 1 | 0 | 3 | 29 47 | 3 | 16.0 | 1 | 3 | 0 38 | 23.1 | 9 | 2 | 3 | 1 29 | 9 | 8 | | | | | | |
| 31 | 8 | 6 | 27 46 | 20.2 | 13.5 | 9 | 6 | 28 38 | 21.0 | 4 | 0 | 6 | 29 29 | 8 | 3 | 1 | 6 | 0 20 | 6 | 1 | 2 | 6 | 1 11 | 4 | 17.0 | 20.3 | 6 | 2 | 2 24.3 | 9 | | | | | | |
| 32 | 9 | 9 | 28 20 | 5 | 6 | 16.0 | 9 | 29 12 | 3 | 14.5 | 1 | 25.0 | 0 3 | 22.1 | 4 | 2 | 26.0 | 0 54 | 9 | 3 | 3 | 27.0 | 1 45 | 8 | 1 | 4 | 28.0 | 2 36 | 6 | 18.0 | | | | | | |
| 33 | 15.0 | 23.3 | 28 56 | 8 | 8 | 1 | 24.3 | 29 47 | 7 | 6 | 2 | 3 | 0 38 | 5 | 15.5 | 3 | 3 | 1 29 | 23.3 | 4 | 19.3 | 4 | 2 20 | 24.1 | 3 | 4 | 4 | 3 10 | 9 | 1 | | | | | | |
| 34 | 0 | 6 | 29 32 | 21.2 | 9 | 1 | 7 | 0 23 | 22.0 | 8 | 2 | 7 | 1 14 | 8 | 6 | 18.3 | 7 | 2 5 | 6 | 16.5 | 4 | 8 | 2 55 | 4 | 4 | 5 | 8 | 3 45 | 25.2 | 3 | | | | | | |
| 35 | 1 | 24.0 | 0 9 | 5 | 14.0 | 2 | 25.1 | 1 0 | 4 | 9 | 17.3 | 26.1 | 1 51 | 23.2 | 8 | 4 | 27.1 | 2 41 | 24.0 | 7 | 5 | 28.2 | 3 32 | 8 | 17.5 | 20.6 | 29.2 | 4 21 | 6 | 4 | | | | | | |
| 36 | 1 | 4 | 0 47 | 9 | 2 | 3 | 5 | 1 38 | 7 | 15.1 | 4 | 5 | 2 28 | 5 | 9 | 5 | 5 | 3 19 | 3 | 8 | 6 | 6 | 4 9 | 25.1 | 7 | 7 | 6 | 4 58 | 9 | 18.5 | | | | | | |
| 37 | 2 | 8 | 1 25 | 22.3 | 3 | 16.3 | 9 | 2 16 | 23.1 | 2 | 5 | 9 | 3 6 | 9 | 16.1 | 6 | 28.0 | 3 57 | 7 | 9 | 19.7 | 29.0 | 4 46 | 5 | 8 | 8 | Π | 5 36 | 26.3 | 7 | | | | | | |
| 38 | 15.3 | 25.3 | 2 5 | 7 | 5 | 4 | 26.3 | 2 56 | 5 | 4 | 5 | 27.4 | 3 45 | 24.3 | 2 | 18.7 | 4 | 4 36 | 25.0 | 17.1 | 7 | 5 | 5 25 | 8 | 9 | 9 | 0.5 | 6 14 | 6 | 8 | | | | | | |
| 39 | 4 | 7 | 2 46 | 23.0 | 7 | 4 | 8 | 3 36 | 8 | 5 | 17.6 | 8 | 4 26 | 6 | 4 | 8 | 9 | 5 16 | 4 | 2 | 8 | 9 | 6 5 | 26.2 | 18.1 | 21.0 | 9 | 6 54 | 27.0 | 19.0 | | | | | | |
| 40 | 4 | 26.2 | 3 27 | 4 | 8 | 5 | 27.3 | 4 18 | 24.2 | 7 | 7 | 28.3 | 5 7 | 25.0 | 5 | 8 | 29.4 | 5 56 | 8 | 4 | 9 | Π | 0.4 | 6 45 | 6 | 3 | 0 | 1.4 | 7 34 | 4 | 1 | | | | | |
| 41 | 5 | 7 | 4 10 | 8 | 15.0 | 16.6 | 8 | 5 0 | 6 | 8 | 8 | 9 | 5 49 | 4 | 7 | 9 | 9 | 6 38 | 26.2 | 6 | 20.0 | 9 | 7 27 | 27.0 | 4 | 1 | 2.0 | 8 16 | 8 | 3 | | | | | | |
| 42 | 6 | 27.3 | 4 55 | 24.3 | 2 | 7 | 28.3 | 5 44 | 25.1 | 16.0 | 9 | 29.4 | 6 33 | 8 | 9 | 19.0 | Π | 0.4 | 7 22 | 6 | 7 | 1 | 1.5 | 8 10 | 4 | 6 | 2 | 5 | 8 58 | 28.2 | 4 | | | | | |
| 43 | 15.6 | 8 | 5 40 | 7 | 3 | 8 | 9 | 6 29 | 5 | 2 | 18.0 | Π | 7 18 | 26.3 | 17.0 | 1 | 1.0 | 8 6 | 27.0 | 9 | 2 | 2.0 | 8 54 | 8 | 7 | 3 | 3.0 | 9 42 | 6 | 19.6 | | | | | | |
| 44 | 7 | 28.4 | 6 28 | 25.2 | 5 | 9 | 29.5 | 7 16 | 9 | 4 | 1 | 0.6 | 8 5 | 7 | 2 | 2 | 6 | 8 52 | 5 | 18.1 | 3 | 6 | 9 40 | 28.3 | 9 | 21.5 | 6 | 10 27 | 29.0 | 7 | | | | | | |
| 45 | 8 | 29.0 | 7 16 | 6 | 7 | 17.0 | Π | 0.1 | 8 4 | 26.4 | 6 | 2 | 1.2 | 8 53 | 27.2 | 4 | 3 | 2.2 | 9 40 | 9 | 2 | 20.4 | 3.2 | 10 27 | 7 | 19.1 | 6 | 4.2 | 11 14 | 5 | 9 | | | | | |
| 46 | 9 | 6 | 8 6 | 26.1 | 8 | 1 | 7 | 8 54 | 8 | 7 | 3 | 8 | 9 42 | 6 | 6 | 4 | 8 | 10 29 | 28.4 | 3 | 6 | 8 | 11 16 | 29.1 | 3 | 7 | 8 | 12 2 | 9 | 20.0 | | | | | | |
| 47 | 16.0 | Π | 0.3 | 8 58 | 6 | 16.0 | 2 | 1.3 | 9 46 | 27.5 | 9 | 4 | 2.4 | 10 33 | 28.1 | 7 | 19.5 | 3.4 | 11 19 | 8 | 5 | 7 | 4.4 | 12 5 | 5 | 4 | 9 | 5.5 | 12 51 | 0.4 | 2 | | | | | |
| 48 | 1 | 9 | 9 52 | 27.1 | 2 | 3 | 9 | 10 39 | 8 | 17.1 | 18.5 | 3.1 | 11 25 | 6 | 9 | 7 | 4.1 | 12 11 | 29.3 | 7 | 8 | 5.1 | 12 57 | Π | 6 | 22.0 | 6.2 | 13 42 | 8 | 4 | | | | | | |
| 49 | 2 | 1.6 | 10 47 | 6 | 4 | 17.4 | 2.6 | 11 33 | 28.3 | 3 | 6 | 8 | 12 19 | 29.1 | 18.1 | 8 | 9 | 13 5 | 8 | 9 | 21.0 | 8 | 13 49 | 0.5 | 8 | 1 | 9 | 14 35 | 1.3 | 6 | | | | | | |
| 50 | 3 | 2.3 | 11 44 | 28.1 | 6 | 5 | 3.4 | 12 29 | 8 | 5 | 7 | 4.5 | 13 15 | 6 | 3 | 9 | 5.6 | 14 0 | 0.3 | 19.1 | 1 | 6.6 | 14 44 | 1.0 | 9 | 3 | 7.7 | 15 29 | 8 | 8 | | | | | | |
| 51 | 16.4 | 3.1 | 12 43 | 7 | 8 | 6 | 4.2 | 13 28 | 29.4 | 7 | 9 | 5.3 | 14 12 | 0.1 | 5 | 20.1 | 6.4 | 14 57 | 8 | 3 | 3 | 7.4 | 15 41 | 5 | 20.1 | 5 | 8.5 | 16 24 | 2.3 | 21.0 | | | | | | |
| 52 | 6 | 4.0 | 13 44 | 29.3 | 17.1 | 8 | 5.1 | 14 28 | Π | 18.0 | 19.0 | 6.2 | 15 12 | 7 | 7 | 2 | 7.3 | 15 56 | 1.4 | 5 | 4 | 8.3 | 16 40 | 2.1 | 3 | 7 | 9.4 | 17 22 | 8 | 2 | | | | | | |
| 53 | 7 | 5.0 | 14 48 | 9 | 3 | 18.0 | 6.1 | 15 31 | 0.6 | 2 | 2 | 7.2 | 16 14 | 1.3 | 9 | 4 | 8.3 | 16 57 | 2.0 | 8 | 6 | 9.3 | 17 40 | 7 | 6 | 9 | 10.4 | 18 22 | 3.4 | 4 | | | | | | |
| 54 | 9 | 6.1 | 15 54 | 0.5 | 5 | 1 | 7.2 | 16 36 | 1.2 | 4 | 3 | 8.3 | 17 18 | 9 | 19.1 | 6 | 9.3 | 18 1 | 6 | 20.0 | 8 | 10.4 | 18 43 | 3.3 | 8 | 23.0 | 11.4 | 19 24 | 4.0 | 6 | | | | | | |
| 55 | 17.0 | 7.2 | 17 2 | 1.1 | 8 | 3 | 8.3 | 17 44 | 8 | 6 | 5 | 9.4 | 18 25 | 2.5 | 4 | 8 | 10.4 | 19 6 | 3.2 | 2 | 22.0 | 11.5 | 19 47 | 9 | 21.0 | 2 | 12.5 | 20 28 | 6 | 8 | | | | | | |
| 56 | 1 | 8.5 | 18 13 | 8 | 18.1 | 4 | 9.6 | 18 54 | 2.5 | 9 | 7 | 10.7 | 19 34 | 3.1 | 7 | 21.0 | 11.7 | 20 15 | 8 | 5 | 2 | 12.8 | 20 55 | 4.5 | 3 | 5 | 13.7 | 21 35 | 5.2 | 22.1 | | | | | | |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

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| H. M. S. SID. T. 23 12 10 } \times 17° ARC 348° 2'.5 } 17° | | | | | H. M. S. 23 15 52 } \times 18° 348° 58'.0 } \times 18° | | | | | H. M. S. 23 19 33 } \times 19° 349° 53'.4 } \times 19° | | | | | H. M. S. 23 23 15 } \times 20° 350° 48'.7 } \times 20° | | | | | H. M. S. 23 26 56 } \times 21° 351° 44'.0 } \times 21° | | | | | H. M. S. 23 30 37 } \times 22° 352° 39'.2 } \times 22° | | | | | | | |
|--|----------|----------|-------|----------|--|----------|----------|-------|----------|--|----------|----------|-------|----------|--|----------|----------|----------|----------|--|----------|----------|----------|----------|--|----------|-------|----------|----------|--------|------|------|
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | γ | δ | π | σ | ρ | γ | δ | σ | σ | ρ | γ | δ | σ | σ | ρ | γ | π | σ | σ | ρ | | |
| 22 | 20.7 | 25.8 | 28 17 | 22.4 | 17.7 | 21.8 | 26.8 | 29 8 | 23.2 | 18.6 | 22.8 | 27.7 | 29 59 | 24.1 | 19.5 | 23.8 | 28.7 | 0 50 | 24.9 | 20.4 | 24.9 | 29.6 | 1 40 | 25.7 | 21.3 | 25.9 | 0 6 | 2 31 | 26.5 | 22.2 | | |
| 23 | 8 | 26.1 | 28 46 | 7 | 9 | 8 | 27.1 | 29 37 | 5 | 7 | 9 | 28.0 | 0 28 | 3 | 6 | 9 | 29.0 | 1 18 | 25.2 | 5 | 9 | 9 | 2 8 | 26.0 | 4 | 26.0 | 9 | 2 59 | 8 | 3 | | |
| 24 | 8 | 4 | 29 15 | 23.0 | 18.0 | 9 | 4 | 0 6 | 8 | 9 | 9 | 3 | 0 56 | 6 | 7 | 24.0 | 3 | 1 47 | 4 | 6 | 25.0 | 0.2 | 2 37 | 3 | 5 | 0 | 1.2 | 3 27 | 27.1 | 4 | | |
| 25 | 9 | 7 | 29 44 | 2 | 1 | 22.0 | 7 | 0 35 | 24.1 | 19.0 | 23.0 | 6 | 1 26 | 9 | 9 | 0 | 6 | 2 16 | 7 | 7 | 1 | 5 | 3 | 6 | 5 | 6 | 1 | 5 | 3 56 | 4 | 5 | |
| 26 | 21.0 | 27.0 | 0 14 | 5 | 2 | 0 | 28.0 | 1 5 | 4 | 1 | 1 | 9 | 1 55 | 25.2 | 20.0 | 1 | 9 | 2 46 | 26.0 | 9 | 2 | 9 | 3 36 | 8 | 7 | 2 | 8 | 4 26 | 6 | 22.6 | | |
| 27 | 0 | 3 | 0 45 | 8 | 3 | 1 | 3 | 1 35 | 7 | 2 | 2 | 29.3 | 2 26 | 5 | 1 | 2 | 0.2 | 3 16 | 3 | 21.0 | 3 | 1.2 | 4 | 6 | 27.1 | 8 | 26.3 | 2.1 | 4 56 | 9 | 7 | |
| 28 | 1 | 6 | 1 16 | 24.1 | 4 | 2 | 6 | 2 6 | 25.0 | 3 | 2 | 6 | 2 56 | 8 | 2 | 24.3 | 5 | 3 46 | 6 | 1 | 25.3 | 5 | 4 36 | 4 | 22.0 | 4 | 5 | 5 26 | 28.2 | 8 | | |
| 29 | 2 | 28.0 | 1 48 | 4 | 18.5 | 22.3 | 9 | 2 38 | 3 | 4 | 23.3 | 9 | 3 28 | 26.1 | 3 | 4 | 9 | 4 18 | 9 | 2 | 4 | 8 | 5 | 7 | 7 | 1 | 5 | 8 | 5 57 | 5 | 9 | |
| 30 | 3 | 3 | 2 20 | 8 | 6 | 3 | 29.3 | 3 10 | 6 | 19.5 | 4 | 0.2 | 4 | 0 | 4 | 4 | 5 | 1.2 | 4 49 | 27.2 | 3 | 5 | 2.2 | 5 39 | 28.0 | 2 | 6 | 3.1 | 6 28 | 8 | 23.1 | |
| 31 | 21.4 | 6 | 2 52 | 25.1 | 8 | 4 | 6 | 3 43 | 9 | 7 | 5 | 6 | 4 32 | 7 | 20.5 | 6 | 6 | 5 22 | 5 | 4 | 6 | 5 | 6 11 | 3 | 3 | 26.7 | 5 | 7 | 0 29 | 1 | 2 | |
| 32 | 4 | 29.0 | 3 26 | 4 | 9 | 5 | 0 | 4 16 | 26.2 | 8 | 6 | 9 | 5 | 6 27.0 | 6 | 24.7 | 9 | 5 55 | 8 | 21.5 | 25.7 | 9 | 6 44 | 6 | 4 | 8 | 9 | 7 33 | 4 | 3 | | |
| 33 | 5 | 4 | 4 | 0 | 7 | 19.0 | 22.6 | 0.4 | 4 50 | 5 | 9 | 23.7 | 1.3 | 5 39 | 3 | 8 | 8 | 2.3 | 6 28 | 28.1 | 6 | 8 | 3.3 | 7 17 | 9 | 22.5 | 9 | 4.2 | 8 | 6 | 7 | 4 |
| 34 | 6 | 8 | 4 35 | 26.0 | 1 | 7 | 8 | 5 25 | 8 | 20.0 | 8 | 7 | 6 14 | 6 | 9 | 9 | 7 | 7 | 3 | 4 | 8 | 9 | 7 | 7 51 | 29.2 | 6 | 27.0 | 6 | 8 40 | 9 | 23.5 | |
| 35 | 21.7 | 0.2 | 5 11 | 4 | 3 | 8 | 1.2 | 6 | 0 27.2 | 1 | 9 | 2.1 | 6 49 | 28.0 | 21.0 | 25.0 | 3.1 | 7 38 | 8 | 9 | 26.0 | 4.1 | 8 26 | 6 | 8 | 1 | 5.1 | 9 15 | 0.4 | 6 | | |
| 36 | 8 | 6 | 5 47 | 7 | 4 | 9 | 6 | 6 36 | 5 | 3 | 24.0 | 6 | 7 25 | 3 | 1 | 1 | 5 | 8 13 | 29.1 | 22.0 | 1 | 5 | 9 | 2 | 9 | 9 | 2 | 5 | 9 50 | 7 | 7 | |
| 37 | 9 | 1.0 | 6 25 | 27.1 | 19.5 | 23.0 | 2.0 | 7 13 | 9 | 4 | 1 | 3.0 | 8 | 2 | 7 | 3 | 2 | 4.0 | 8 50 | 4 | 1 | 2 | 5.0 | 9 39 | 0.2 | 23.0 | 3 | 9 | 10 26 | 1.0 | 9 | |
| 38 | 9 | 4 | 7 | 3 | 4 | 7 | 1 | 4 | 7 51 | 28.2 | 20.5 | 2 | 4 | 8 40 | 29.0 | 4 | 3 | 4 | 9 28 | 8 | 3 | 4 | 4 | 10 15 | 6 | 1 | 27.4 | 6.4 | 11 | 3 | 4 | 24.0 |
| 39 | 22.0 | 9 | 7 42 | 8 | 8 | 2 | 9 | 8 30 | 6 | 7 | 3 | 9 | 9 18 | 4 | 21.5 | 4 | 9 | 10 | 6 | 0.2 | 4 | 26.5 | 9 | 10 53 | 9 | 3 | 6 | 9 | 11 41 | 7 | 1 | |
| 40 | 1 | 2.4 | 8 22 | 28.2 | 20.0 | 3 | 3.4 | 9 10 | 29.0 | 8 | 4 | 4.4 | 9 58 | 7 | 7 | 25.5 | 5.4 | 10 45 | 5 | 22.5 | 6 | 6.4 | 11 32 | 1.3 | 4 | 7 | 7.4 | 12 19 | 2.1 | 3 | | |
| 41 | 2 | 3.0 | 9 | 3 | 6 | 1 | 4 | 4.0 | 9 51 | 4 | 21.0 | 24.5 | 5.0 | 10 38 | 0.1 | 8 | 6 | 9 | 11 26 | 9 | 7 | 7 | 9 | 12 12 | 7 | 23.5 | 8 | 9 | 12 59 | 5 | 4 | |
| 42 | 3 | 5 | 9 46 | 29.0 | 3 | 23.6 | 5 | 10 33 | 8 | 1 | 7 | 5 | 11 20 | 5 | 22.0 | 7 | 6.4 | 12 | 7 | 1.3 | 8 | 9 | 7.5 | 12 53 | 2.1 | 7 | 28.0 | 8.5 | 13 39 | 8 | 24.5 | |
| 43 | 22.5 | 4.0 | 10 29 | 4 | 4 | 7 | 5.0 | 11 17 | 0.2 | 3 | 8 | 6.0 | 12 | 3 | 9 | 1 | 8 | 7.0 | 12 49 | 7 | 23.0 | 27.0 | 8.1 | 13 35 | 5 | 8 | 1 | 9.0 | 14 21 | 3.2 | 7 | |
| 44 | 6 | 6 | 11 14 | 8 | 6 | 8 | 6 | 12 | 1 | 6 | 4 | 9 | 6 | 12 47 | 1.3 | 3 | 9 | 6 | 13 33 | 2.1 | 1 | 1 | 7 | 14 19 | 9 | 24.0 | 3 | 6 | 15 | 4 | 6 | 8 |
| 45 | 7 | 5.2 | 12 | 0 | 0.3 | 8 | 9 | 6.2 | 12 46 | 1.0 | 21.6 | 25.0 | 7.2 | 13 32 | 8 | 5 | 26.1 | 8.2 | 14 18 | 5 | 3 | 2 | 9.3 | 15 | 3 | 3.3 | 1 | 4 | 10.2 | 15 48 | 4.0 | 25.0 |
| 46 | 9 | 9 | 12 47 | 7 | 21.0 | 24.0 | 9 | 13 33 | 5 | 8 | 2 | 9 | 14 19 | 2.2 | 22.6 | 3 | 8 | 15 | 4 | 3.0 | 5 | 4 | 9 | 15 48 | 7 | 3 | 28.5 | 9 | 16 33 | 5 | 1 | |
| 47 | 23.0 | 6.6 | 13 36 | 1.2 | 1 | 2 | 7.5 | 14 22 | 9 | 9 | 3 | 8.6 | 15 | 7 | 6 | 7 | 5 | 9.5 | 15 51 | 4 | 23.6 | 27.6 | 10.6 | 16 35 | 4.1 | 4 | 7 | 11.6 | 17 20 | 9 | 2 | |
| 48 | 1 | 7.2 | 14 26 | 6 | 2 | 4 | 8.2 | 15 12 | 2.3 | 22.0 | 5 | 9.3 | 15 56 | 3.0 | 9 | 7 | 10.2 | 16 40 | 8 | 8 | 8 | 11.3 | 17 23 | 5 | 24.5 | 9 | 12.3 | 18 | 8 | 5.3 | 3 | |
| 49 | 3 | 9 | 15 18 | 2.0 | 4 | 5 | 9.0 | 16 | 3 | 8 | 2 | 6 | 10.0 | 16 47 | 5 | 23.1 | 8 | 9 | 17 30 | 4.2 | 9 | 9 | 12.0 | 18 13 | 5.0 | 7 | 29.1 | 13.0 | 18 57 | 7 | 25.5 | |
| 50 | 5 | 8.7 | 16 12 | 5 | 6 | 6 | 7 | 16 56 | 3.3 | 4 | 8 | 7 | 17 39 | 4.0 | 3 | 27.0 | 11.7 | 18 22 | 7 | 24.1 | 28.1 | 7 | 19 | 5 | 5 | 9 | 3 | 7 | 19 48 | 6.2 | 7 | |
| 51 | 7 | 9.5 | 17 | 8 | 3.0 | 8 | 8 | 10.5 | 17 51 | 8 | 6 | 26.0 | 11.5 | 18 33 | 5 | 5 | 2 | 12.5 | 19 16 | 5.2 | 3 | 4 | 13.5 | 19 58 | 6.0 | 25.1 | 5 | 14.5 | 20 40 | 7 | 9 | |
| 52 | 9 | 10.4 | 18 | 5 | 5 | 22.0 | 25.1 | 11.4 | 18 47 | 4.3 | 8 | 3 | 12.4 | 19 29 | 5.0 | 7 | 4 | 13.4 | 20 11 | 7 | 4 | 6 | 14.4 | 20 53 | 5 | 3 | 8 | 15.4 | 21 34 | 7.2 | 26.1 | |
| 53 | 24.1 | 11.4 | 19 | 5 | 4.1 | 2 | 3 | 12.4 | 19 46 | 8 | 23.0 | 5 | 13.4 | 20 27 | 5 | 8 | 7 | 14.4 | 21 | 8 | 6.2 | 6 | 8 | 15.4 | 21 50 | 7.0 | 5 | 8 | 16.4 | 22 30 | 7 | 3 |
| 54 | 2 | 12.5 | 20 | 6 | 7 | 4 | 5 | 13.5 | 20 46 | 5.4 | 2 | 7 | 14.5 | 21 27 | 6.1 | 24.0 | 9 | 15.5 | 22 | 7 | 8 | 8 | 29.1 | 16.4 | 22 48 | 5 | 7 | 0 | 17.4 | 23 28 | 8.2 | 5 |
| 55 | 4 | 13.6 | 21 | 9 | 5.3 | 6 | 7 | 14.6 | 21 49 | 6.0 | 4 | 9 | 15.6 | 22 29 | 7 | 2 | 28.1 | 16.6 | 23 | 9 | 7.4 | 25.0 | 3 | 17.5 | 23 48 | 8.1 | 9 | 5 | 18.5 | 24 28 | 8 | 7 |
| 56 | 6 | 14.9 | 22 14 | 9 | 9 | 9 | 26.0 | 15.9 | 22 54 | 6 | 7 | 27.1 | 16.8 | 23 33 | 7.3 | 5 | 3 | 17.8 | 24 12 | 8 | 0 | 3 | 5 | 18.7 | 24 50 | 7 | 26.2 | 7 | 19.7 | 25 29 | 9.4 | 9 |

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

| H. M. S. SID. T. 23 30 37 } \propto 22° ARC 352° 39'.2 | | | | | | H. M. S. 23 34 18 } \propto 23° 353° 34'.4 | | | | | | H. M. S. 23 37 58 } \propto 24° 354° 29'.6 | | | | | | H. M. S. 23 41 39 } \propto 25° 355° 24'.7 | | | | | | H. M. S. 23 45 19 } \propto 26° 356° 19'.8 | | | | | | H. M. S. 23 48 59 } \propto 27° 357° 14'.8 | | | | | | | | | | | |
|--|------|------|-------|------|------|--|------|-------|------|------|------|--|-------|-------|------|------|------|--|-------|-------|------|------|-------|--|-------|------|------|------|-------|--|------|------|-----|------|------|------|--|--|--|--|--|
| H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | H. | 11 | 12 | 1 | 2 | 3 | | | | | | |
| Lat. | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ''' | ° | ' | '' | ''' | ''' | ''' | ° | ' | '' | ''' | ''' | ''' | ° | ' | '' | ''' | ''' | ° | ' | '' | ''' | ''' | ''' | | | | | | | |
| 22 | 25.9 | 0.6 | 2.31 | 26.5 | 22.2 | 26.9 | 1.5 | 3.20 | 27.4 | 23.1 | 27.9 | 2.4 | 4.11 | 28.2 | 24.0 | 28.9 | 3.4 | 5.1 | 29.0 | 24.9 | 0.0 | 4.3 | 5.50 | 29.8 | 25.8 | 1.0 | 5.2 | 6.40 | 0.7 | 26.7 | | | | | | | | | | | |
| 23 | 26.0 | 9 | 2.59 | 8 | 3 | 27.0 | 8 | 3.49 | 6 | 2 | 28.0 | 7 | 4.39 | 5 | 1 | 29.0 | 7 | 5.29 | 3 | 25.0 | 1 | 6 | 6.18 | 0.1 | 9 | 1 | 5 | 7 | 7 | 9 | 8 | | | | | | | | | | |
| 24 | 0 | 1.2 | 3.27 | 27.1 | 4 | 1 | 2.1 | 4.17 | 9 | 3 | 1 | 3.0 | 5 | 7 | 2 | 1 | 4.0 | 5.57 | 5 | 1 | 1 | 9 | 6.46 | 4 | 26.0 | 2 | 8 | 7.35 | 1.2 | 9 | | | | | | | | | | | |
| 25 | 1 | 5 | 3.56 | 4 | 5 | 2 | 4 | 4.46 | 28.2 | 4 | 2 | 4 | 5.36 | 29.0 | 3 | 2 | 3 | 6.25 | 8 | 2 | 2 | 5.2 | 7.15 | 6 | 1 | 3 | 6.1 | 8 | 4 | 4 | 27.0 | | | | | | | | | | |
| 26 | 2 | 8 | 4.26 | 6 | 22.6 | 3 | 7 | 5.15 | 5 | 5 | 3 | 7 | 6 | 5 | 3 | 4 | 3 | 6 | 6.54 | 0.1 | 3 | 3 | 6 | 7.43 | 9 | 2 | 4 | 5 | 8.33 | 7 | 1 | | | | | | | | | | |
| 27 | 26.3 | 2.1 | 4.56 | 9 | 7 | 27.3 | 3.1 | 5.45 | 7 | 23.6 | 4 | 4.0 | 6.34 | 6 | 24.5 | 4 | 5.0 | 7.24 | 4 | 4 | 0.4 | 9 | 8.13 | 1.2 | 3 | 1.5 | 8 | 9 | 2 | 2.0 | 2 | | | | | | | | | | |
| 28 | 4 | 5 | 5.26 | 28.2 | 8 | 4 | 4 | 6.15 | 29.0 | 7 | 28.5 | 3 | 7 | 4 | 8 | 6 | 29.5 | 3 | 7.54 | 6 | 25.5 | 5 | 6.2 | 8.42 | 5 | 4 | 6 | 7.1 | 9.31 | 3 | 3 | | | | | | | | | | |
| 29 | 5 | 8 | 5.57 | 5 | 9 | 5 | 7 | 6.46 | 3 | 8 | 6 | 7 | 7.35 | 0.1 | 7 | 6 | 6 | 8.24 | 9 | 6 | 7 | 6 | 9.13 | 7 | 26.5 | 7 | 5 | 10 | 1 | 6 | 4 | | | | | | | | | | |
| 30 | 6 | 3.1 | 6.28 | 8 | 23.1 | 6 | 4.1 | 7.17 | 6 | 9 | 7 | 5.0 | 8 | 6 | 4 | 8 | 7 | 6.0 | 8.55 | 1.2 | 7 | 8 | 9 | 9.43 | 2.0 | 6 | 8 | 8 | 10.32 | 8 | 27.5 | | | | | | | | | | |
| 31 | 26.7 | 5 | 7 | 0 | 29.1 | 2 | 27.7 | 4 | 7.49 | 9 | 24.0 | 8 | 4 | 8.38 | 7 | 9 | 8 | 3 | 9.26 | 5 | 8 | 9 | 7.2 | 10.15 | 3 | 7 | 9 | 8.2 | 11 | 3 | 3.1 | 6 | | | | | | | | | |
| 32 | 8 | 9 | 7.33 | 4 | 3 | 8 | 8 | 8.22 | 0.2 | 2 | 9 | 7 | 9.10 | 1.0 | 25.0 | 9 | 7 | 9.59 | 8 | 9 | 1.0 | 6 | 10.46 | 6 | 8 | 2.0 | 6 | 11 | 3.4 | 4 | 7 | | | | | | | | | | |
| 33 | 9 | 4.2 | 8 | 6 | 7 | 4 | 9 | 5.2 | 8.55 | 5 | 3 | 29.0 | 6.1 | 9.43 | 3 | 1 | 8 | 7.1 | 10.31 | 2.1 | 26.0 | 1 | 8.0 | 11.19 | 9 | 9 | 2 | 9.0 | 12 | 7 | 7 | 8 | | | | | | | | | |
| 34 | 27.0 | 6 | 8.40 | 0.1 | 23.5 | 28.0 | 6 | 9.28 | 8 | 4 | 1 | 5 | 10.16 | 6 | 3 | 0.2 | 5 | 11 | 4 | 4 | 1 | 2 | 4 | 11.52 | 3.2 | 27.0 | 3 | 4 | 12 | 4.0 | 9 | | | | | | | | | | |
| 35 | 1 | 5.1 | 9.15 | 0.4 | 6 | 1 | 6.0 | 10 | 3 | 1.2 | 24.5 | 2 | 7.0 | 10.51 | 2.0 | 4 | 3 | 9 | 11.38 | 8 | 2 | 4 | 8 | 12.26 | 5 | 1 | 4 | 8 | 13 | 13 | 3 | 28.0 | | | | | | | | | |
| 36 | 2 | 5 | 9.50 | 7 | 7 | 3 | 5 | 10.38 | 5 | 6 | 3 | 4 | 11.25 | 3 | 25.5 | 4 | 8.3 | 12.13 | 3.1 | 4 | 1.5 | 9.3 | 13 | 0 | 9 | 2 | 2.5 | 10.2 | 13 | 4.7 | 7 | 1 | | | | | | | | | |
| 37 | 3 | 9 | 10.26 | 1.0 | 9 | 4 | 9 | 11.13 | 8 | 7 | 29.5 | 9 | 12 | 1 | 6 | 6 | 5 | 8 | 12.48 | 4 | 26.5 | 6 | 7 | 13.35 | 4.2 | 4 | 7 | 7 | 14 | 22 | 5.0 | 2 | | | | | | | | | |
| 38 | 27.4 | 6.4 | 11 | 3 | 4 | 24.0 | 28.5 | 7.4 | 11 | 5.0 | 2.2 | 9 | 6 | 8.3 | 12 | 3.0 | 7 | 0.7 | 9.3 | 13 | 2.4 | 7 | 6 | 8 | 10.2 | 14 | 11 | 5 | 27.5 | 8 | 11.1 | 14 | 5.8 | 3 | 3 | | | | | | |
| 39 | 6 | 9 | 11.41 | 7 | 1 | 6 | 9 | 12.28 | 5 | 25.0 | 7 | 8 | 13.14 | 3 | 8 | 8 | 8 | 14 | 1 | 4.1 | 7 | 9 | 7 | 14.48 | 9 | 6 | 3.0 | 6 | 15 | 3.4 | 6 | 4 | | | | | | | | | |
| 40 | 7 | 7.4 | 12.19 | 2.1 | 3 | 8 | 8.4 | 13 | 6 | 8 | 1 | 8 | 9.3 | 13 | 5.3 | 6 | 26.0 | 9 | 10.3 | 14 | 3.9 | 4 | 8 | 2.0 | 11.2 | 15 | 2.5 | 5.2 | 7 | 1 | 12.1 | 16 | 11 | 9 | 28.6 | | | | | | |
| 41 | 8 | 9 | 12.59 | 5 | 4 | 9 | 9 | 13.45 | 3.1 | 2 | 8 | 8 | 14.32 | 4.0 | 1 | 1.1 | 8 | 15 | 18 | 8 | 27.0 | 1 | 7 | 16 | 3 | 6 | 8 | 3 | 6 | 16 | 4.9 | 6.2 | 7 | | | | | | | | |
| 42 | 28.0 | 8.5 | 13.39 | 8 | 24.5 | 29.1 | 9.4 | 14.26 | 5 | 4 | 0.1 | 10.4 | 15 | 12 | 4 | 2 | 2 | 11.3 | 15 | 5.7 | 5.2 | 1 | 3 | 12.2 | 16 | 4.3 | 9 | 28.0 | 5 | 13.2 | 17 | 2.8 | 6 | 8 | | | | | | | |
| 43 | 1 | 9.0 | 14.21 | 3.2 | 7 | 2 | 10.0 | 15 | 7 | 9 | 25.5 | 3 | 9 | 15 | 5.3 | 7 | 4 | 4 | 9 | 16.38 | 5 | 2 | 5 | 8 | 17.23 | 6.3 | 1 | 6 | 7 | 18 | 8 | 7.0 | 9 | | | | | | | | |
| 44 | 3 | 6 | 15 | 4 | 6 | 8 | 4 | 6 | 15 | 5.0 | 4.3 | 7 | 4 | 11.5 | 16 | 3.5 | 5.1 | 26.5 | 6 | 12.5 | 17 | 2.0 | 9 | 4 | 6 | 13.4 | 18 | 4 | 7 | 2 | 8 | 14.3 | 18 | 4.9 | 3 | 29.1 | | | | | |
| 45 | 4 | 10.2 | 15.48 | 4.0 | 25.0 | 5 | 11.2 | 16.33 | 7 | 8 | 6 | 12.2 | 17 | 18 | 5 | 7 | 7 | 13.1 | 18 | 2 | 6.3 | 27.5 | 8 | 14.0 | 18 | 4.7 | 7.1 | 4 | 4.0 | 9 | 19 | 3.1 | 7 | 2 | | | | | | | |
| 46 | 28.5 | 9 | 16.33 | 5 | 1 | 7 | 9 | 17.18 | 5.1 | 26.0 | 8 | 8 | 18 | 2 | 9 | 8 | 9 | 7 | 18.46 | 7 | 7 | 3.0 | 7 | 19 | 3.0 | 5 | 28.5 | 2 | 15.6 | 20 | 1.4 | 8.1 | 3 | | | | | | | | |
| 47 | 7 | 11.6 | 17.20 | 9 | 2 | 9 | 12.5 | 18 | 4 | 5 | 1 | 1.0 | 13.5 | 18 | 4.8 | 6.3 | 9 | 2.1 | 14.4 | 19 | 3.1 | 7.1 | 8 | 2 | 15.4 | 20 | 1.5 | 9 | 7 | 3 | 16.3 | 20 | 5.8 | 5 | 4 | | | | | | |
| 48 | 9 | 12.3 | 18 | 8 | 5.3 | 3 | 8 | 13.2 | 18 | 5.1 | 9 | 2 | 2 | 14.2 | 19 | 3.5 | 7 | 27.1 | 3 | 15.1 | 20 | 1.8 | 5 | 9 | 4 | 16.1 | 21 | 1 | 8.3 | 8 | 5 | 17.0 | 21 | 4.4 | 9 | 29.6 | | | | | |
| 49 | 29.1 | 13.0 | 18.57 | 7 | 25.5 | 0.2 | 14.0 | 19.40 | 6.4 | 4 | 4 | 9 | 20 | 2.3 | 7.1 | 2 | 5 | 8 | 21 | 6 | 9 | 28.1 | 6 | 8 | 21 | 4.8 | 7 | 9 | 7 | 7 | 22 | 3.0 | 9.3 | 7 | | | | | | | |
| 50 | 3 | 7 | 19.48 | 6.2 | 7 | 4 | 7 | 20.31 | 9 | 6 | 6 | 15.6 | 21 | 1.3 | 6 | 4 | 7 | 16.6 | 21 | 5.5 | 8.4 | 2 | 8 | 17.5 | 22 | 3.7 | 9.1 | 29.0 | 9 | 18.5 | 23 | 1.9 | 8 | 8 | | | | | | | |
| 51 | 5 | 14.5 | 20.40 | 7 | 9 | 7 | 15.5 | 21 | 2.2 | 7.4 | 8 | 8 | 16.4 | 22 | 4 | 8.1 | 6 | 9 | 17.4 | 22 | 4.5 | 8 | 4 | 4.1 | 18.3 | 23 | 2.7 | 5 | 1 | 5.1 | 19.3 | 24 | 8 | 10.2 | 0.1 | | | | | | |
| 52 | 8 | 15.4 | 21.34 | 7.2 | 26.1 | 9 | 16.4 | 22 | 1.6 | 9 | 27.0 | 2.0 | 17.3 | 22 | 5.7 | 6 | 8 | 3.2 | 18.3 | 23 | 3.8 | 9.3 | 6 | 4 | 19.2 | 24 | 1.9 | 10.0 | 3 | 4 | 20.2 | 24 | 5.9 | 7 | 0.1 | | | | | | |
| 53 | 8 | 16.4 | 22.30 | 7 | 3 | 1.2 | 17.3 | 23 | 1.1 | 8.4 | 1 | 2 | 18.3 | 23 | 5.2 | 9.1 | 28.0 | 4 | 19.2 | 24 | 3.1 | 8 | 8 | 7 | 20.1 | 25 | 1.2 | 5 | 5 | 7 | 21.1 | 25 | 5.2 | 11.2 | 3 | | | | | | |
| 54 | 0.2 | 17.4 | 23.28 | 8.2 | 5 | 4 | 18.3 | 24 | 8 | 9 | 3 | 5 | 19.3 | 24 | 4.8 | 6 | 1 | 7 | 20.2 | 25 | 2.7 | 10.3 | 9 | 9 | 21.1 | 26 | 7 | 11.0 | 7 | 6.0 | 22.1 | 26 | 4.6 | 7 | 5 | | | | | | |
| 55 | 5 | 18.5 | 24.28 | 8 | 7 | 7 | 19.4 | 25 | 7 | 9.5 | 5 | 8 | 20.4 | 25 | 4.6 | 10.1 | 3 | 4.0 | 21.3 | 26 | 2.5 | 8 | 29.1 | 5.2 | 22.2 | 27 | 4 | 5 | 9 | 3 | 23.1 | 27 | 4.2 | 12.2 | 7 | | | | | | |
| 56 | 7 | 19.7 | 25.29 | 9.4 | 9 | 2.0 | 20.6 | 26 | 8 | 10.1 | 7 | 3.2 | 21.6 | 26 | 4.6 | 7 | 5 | 3 | 22.5 | 27 | 2.4 | 11.4 | 4 | 5 | 23.4 | 28 | 2 | 12.1 | 0.1 | 6 | 24.3 | 28 | 4.0 | 7 | 9 | | | | | | |

UPPER MERIDIAN, CUSP OF 10th H.

67

| H. M. S. | | | | | | H. M. S. | | | | | | H. M. S. | | | | | |
|----------------------------------|-----|------|-------|------|-----------|--------------------------|------|-------|------|------|------|-----------------------|-------|------|-----------|--|--|
| SID. T. 23 52 40 } \propto 28° | | | | | | 23 56 20 } \propto 29° | | | | | | 24 0 0 } \propto 0° | | | | | |
| ARC 358° 9'.9 } | | | | | | 359° 5'.0 } | | | | | | 360° 0'.0 } | | | | | |
| H. | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | 11 | 12 | 1 | 2 | 3 | | |
| Lat. | 8 | 11 | 25 | 38 | 50 | 8 | 11 | 25 | 38 | 50 | 8 | 11 | 25 | 38 | 50 | | |
| 22 | 2.0 | 6.1 | 7.29 | 1.5 | 27.6 | 3.0 | 7.0 | 8.19 | 2.3 | 28.5 | 4.0 | 7.9 | 9.8 | 3.2 | 29.4 | | |
| 23 | 1 | 4 | 7.57 | 8 | 7 | 1 | 3 | 8.46 | 6 | 6 | 1 | 8.2 | 9.35 | 4 | 5 | | |
| 24 | 2 | 7 | 8.25 | 2.0 | 8 | 2 | 6 | 9.14 | 8 | 7 | 2 | 6.10 | 3 | 7 | 6 | | |
| 25 | 3 | 7.1 | 8.53 | 3 | 9 | 3 | 8.0 | 9.42 | 3.1 | 8 | 3 | 9.10 | 31 | 9 | 7 | | |
| 26 | 4 | 4 | 9.22 | 5 | 28.0 | 4 | 3 | 10.10 | 4 | 9 | 4 | 9.2 | 10.59 | 4.2 | 29.8 | | |
| 27 | 2.5 | 7 | 9.51 | 8 | 1 | 3.5 | 6 | 10.39 | 6 | 29.0 | 4.5 | 6.11 | 27 | 5 | 8 | | |
| 28 | 6 | 8.1 | 10.20 | 3.1 | 2 | 6 | 9.0 | 11.9 | 9 | 0 | 6 | 9.11 | 56 | 7 | 9 | | |
| 29 | 7 | 4 | 10.50 | 4 | 3 | 7 | 3 | 11.38 | 4.2 | 1 | 7 | 10.2 | 12.26 | 5.0 | \propto | | |
| 30 | 8 | 7 | 11.20 | 7 | 3 | 8 | 7 | 12.8 | 5 | 2 | 8 | 6.12 | 56 | 3 | 0.1 | | |
| 31 | 9 | 9.1 | 11.51 | 9 | 28.4 | 4.0 | 10.0 | 12.39 | 8 | 29.3 | 9 | 11.0 | 13.26 | 6 | 2 | | |
| 32 | 3.1 | 5 | 12.23 | 4.2 | 5 | 1 | 4 | 13.10 | 5.0 | 4 | 5.0 | 3 | 13.57 | 8 | 3 | | |
| 33 | 2 | 9 | 12.55 | 5 | 6 | 2 | 8 | 13.42 | 3 | 5 | 2 | 7 | 14.29 | 6.1 | 4 | | |
| 34 | 3 | 10.3 | 13.27 | 8 | 7 | 4 | 11.2 | 14.15 | 6 | 6 | 3 | 12.1 | 15.1 | 4 | 5 | | |
| 35 | 5 | 7 | 14.1 | 5.1 | 9 | 4.5 | 6 | 14.47 | 9 | 29.7 | 4 | 5 | 15.34 | 7 | 0.6 | | |
| 36 | 3.6 | 11.1 | 14.34 | 5 | 29.0 | 7 | 12.1 | 15.21 | 6.2 | 8 | 5.6 | 13.0 | 16.8 | 7.0 | 7 | | |
| 37 | 8 | 6 | 15.9 | 8 | 1 | 8 | 5 | 15.55 | 6 | 9 | 7 | 4 | 16.42 | 3 | 8 | | |
| 38 | 9 | 12.1 | 15.44 | 6.1 | 2 | 5.0 | 13.0 | 16.30 | 9 | 0.1 | 9 | 9 | 17.16 | 7 | 9 | | |
| 39 | 4.0 | 5 | 16.20 | 4 | 3 | 1 | 5 | 17.6 | 7.2 | 2 | 6.1 | 14.4 | 17.52 | 8.0 | 1.0 | | |
| 40 | 1 | 13.0 | 16.57 | 7 | 4 | 2 | 14.0 | 17.43 | 5 | 3 | 3 | 9 | 18.28 | 3 | 1 | | |
| 41 | 3 | 6 | 17.35 | 7.0 | 29.5 | 4 | 5 | 18.20 | 9 | 4 | 4 | 15.4 | 19.5 | 7 | 2 | | |
| 42 | 5 | 14.1 | 18.13 | 4 | 7 | 6 | 15.0 | 18.58 | 8.3 | 0.5 | 6 | 9 | 19.43 | 9.0 | 4 | | |
| 43 | 7 | 7 | 18.53 | 7 | 8 | 8 | 6 | 19.38 | 6 | 6 | 8 | 16.5 | 20.22 | 3 | 5 | | |
| 44 | 9 | 15.3 | 19.33 | 8.1 | 9 | 6.0 | 16.2 | 20.18 | 9.0 | 8 | 7.0 | 17.1 | 21.1 | 6 | 1.6 | | |
| 45 | 5.1 | 9 | 20.15 | 5 | \propto | 2 | 8 | 20.59 | 4 | 9 | 2 | 7 | 21.42 | 10.0 | 7 | | |
| 46 | 2 | 16.5 | 20.57 | 9 | 0.1 | 4 | 17.4 | 21.41 | 7 | 1.0 | 5 | 18.3 | 22.24 | 4 | 8 | | |
| 47 | 4 | 17.2 | 21.41 | 9.3 | 2 | 5 | 18.1 | 22.24 | 10.1 | 1 | 7 | 19.0 | 23.7 | 8 | 9 | | |
| 48 | 6 | 9 | 22.26 | 7 | 4 | 7 | 8 | 23.8 | 5 | 2 | 9 | 7 | 23.51 | 11.2 | 2.1 | | |
| 49 | 8 | 18.6 | 23.12 | 10.1 | 5 | 9 | 19.5 | 23.54 | 9 | 4 | 8.1 | 20.4 | 24.36 | 6 | 2 | | |
| 50 | 6.0 | 19.4 | 24.0 | 5 | 7 | 7.1 | 20.3 | 24.41 | 11.3 | 1.5 | 3 | 21.2 | 25.22 | 12.0 | 3 | | |
| 51 | 3 | 20.2 | 24.49 | 9 | 9 | 4 | 21.1 | 25.30 | 7 | 7 | 6 | 22.0 | 26.10 | 4 | 4 | | |
| 52 | 6 | 21.1 | 25.39 | 11.4 | 1.1 | 7 | 22.0 | 26.20 | 12.1 | 9 | 9 | 9 | 26.59 | 8 | 6 | | |
| 53 | 9 | 22.0 | 26.31 | 9 | 2 | 8.0 | 9 | 27.11 | 6 | 2.0 | 9.2 | 23.8 | 27.50 | 13.3 | 8 | | |
| 54 | 7.2 | 23.0 | 27.25 | 12.4 | 4 | 3 | 23.9 | 28.4 | 13.1 | 1 | 5 | 24.8 | 28.43 | 8 | 3.0 | | |
| 55 | 5 | 24.0 | 28.20 | 9 | 5 | 6 | 24.9 | 28.59 | 6 | 3 | 8 | 25.8 | 29.37 | 14.3 | 1 | | |
| 56 | 8 | 25.1 | 29.18 | 13.4 | 7 | 9 | 26.0 | 29.55 | 14.1 | 5 | 10.1 | 27.0 | 0.32 | 8 | 3 | | |

POSTSCRIPT.

As the tabular spherical basis here built fails to cover a considerable zone near the equator, and figures are often wanted for latitudes less than 22°, the formula for their calculation is added and can be used by any one a little versed in trigonometry; and any part of the Table may also be tested thereby.

(1) To the R. A.* of the M. C. add 30°, 60°, or 90°, or so on, according to the place of the house in order from the meridian, which will give the oblique ascension of its cusp. Express this in distance, forward or backward, from \propto 0 or \pm 0, whichever be the nearer, and call it d . Call the ecliptic obliquity O .

Then, $\cos d \cot \text{pole} = \cot A$.

And the sum, or difference, of A and O (according as d measures from \propto or \pm) = B .

Then, $\sec B \cos A \tan d = \tan \text{long. required}$, to be reckoned from \propto or \pm as d was; unless B exceed 90°, when the longitude is reckoned from the opposite equinox, reversely.

For South latitude, first add 180° to the R. A. of the M. C., and proceed as above; but in the final result put opposite zodiacal signs for those found on the minor houses.

The poles below latitude 10° are given in the annexed extension to the equator of table D.

| Lat. | 11th and 3d H. | 12th and 2d H. |
|------|----------------|----------------|
| 0 | 0 0 | 0 0 |
| 1 | 0 20.0 | 0 40.0 |
| 4 | 1 20.1 | 2 40.2 |
| 7 | 2 20.7 | 4 40.8 |
| 10 | 3 21.9 | 6 42.4 |

(2) On the equator the previous formula becomes simply $\frac{\tan d}{\cos O} = \tan \text{long.}$ to be reckoned as above.

Hence a better method than the other would be to compute the longitude for latitude 0, and then interpolate by trial between that and 22°, by aid of the tabular differences in each column. It can often be done by mere inspection. In this way any part of the Table can be completed to the equator with sufficient accuracy, as interpolation in that interval is easy.

For latitudes from 56° to 60°, follow precepts and formula of Art. (1). Interpolation for such high latitudes is not so simple, but should allow for second differences in using table D.

For latitude more than 60° special calculations must be made.

J. G. D.

July, 1903.

* To convert ecliptic longitude into R. A., express the long. in distance (forward) from the nearest cardinal point; then, if from \propto or \pm , $\tan \text{R. A.} = \tan \text{long.} \cos O$; if from ϖ or \varjmath , use \cot instead of \tan .

TABLES OF HOUSES FOR

Latitude 57° 29' N.

| Sidereal Time. | 10 11 12 | 12 | 1 | 2 | 3 | Sidereal Time. | 10 11 12 | 12 | 1 | 2 | 3 | Sidereal Time. | 10 11 12 | 12 | 1 | 2 | 3 |
|----------------|-------------|-------|-------|----------|-------------|----------------|-----------|----------|------------|----|----|----------------|-------------|-------|-------|----------|-------------|
| H. M. S. | ° | ' | ° | ' | ° | H. M. S. | ° | ' | ° | ' | ° | H. M. S. | ° | ' | ° | ' | ° |
| 12 0 0 | 0 20 14 28 | 2 | 1 19 | 13 51 39 | 0 20 51 7 | 34 3 27 | 15 61 18 | 0 16 15 | 17 57 26 | 8 | 12 | 12 0 0 | 0 20 14 28 | 2 | 1 19 | 13 51 39 | 0 20 51 7 |
| 12 3 40 | 1 27 16 28 | 38 | 3 21 | 13 56 28 | 1 21 01 8 | 18 6 28 | 16 56 26 | 1 17 17 | 17 17 28 | 10 | 12 | 3 40 | 1 27 16 28 | 38 | 3 21 | 13 56 28 | 1 21 01 8 |
| 12 7 20 | 2 28 16 29 | 14 | 4 21 | 13 59 18 | 2 22 7 13 | 21 6 7 | 16 69 37 | 2 17 17 | 17 40 7 11 | 11 | 12 | 7 20 | 2 28 16 29 | 14 | 4 21 | 13 59 18 | 2 22 7 13 |
| 12 11 41 | 3 29 16 29 | 51 | 5 22 | 14 3 3 | 3 8 32 3 | 24 9 3 | 16 3 45 | 3 18 32 | 20 6 21 3 | 12 | 12 | 11 41 | 3 29 16 29 | 51 | 5 22 | 14 3 3 | 3 8 32 3 |
| 12 15 21 | 4 29 16 29 | 1 28 | 6 21 | 14 7 0 | 4 23 8 20 | 27 3 9 3 | 16 8 1 41 | 4 19 42 | 21 36 4 13 | 13 | 12 | 15 21 | 4 29 16 29 | 1 28 | 6 21 | 14 7 0 | 4 23 8 20 |
| 12 19 01 | 5 29 16 29 | 1 4 | 7 05 | 14 10 62 | 5 24 9 21 | 30 18 10 | 16 12 13 | 5 20 52 | 21 39 8 15 | 14 | 12 | 19 01 | 5 29 16 29 | 1 4 | 7 05 | 14 10 62 | 5 24 9 21 |
| 12 22 42 | 6 29 16 29 | 1 18 | 1 41 | 14 13 44 | 6 25 10 22 | 31 12 6 | 16 20 27 | 6 21 02 | 21 44 8 16 | 15 | 12 | 22 42 | 6 29 16 29 | 1 18 | 1 41 | 14 13 44 | 6 25 10 22 |
| 12 26 22 | 7 29 16 29 | 1 21 | 2 18 | 14 16 37 | 7 26 10 22 | 32 12 6 | 16 28 41 | 7 22 02 | 21 50 8 16 | 16 | 12 | 26 22 | 7 29 16 29 | 1 21 | 2 18 | 14 16 37 | 7 26 10 22 |
| 12 29 53 | 8 29 16 29 | 2 58 | 3 02 | 14 19 30 | 8 27 11 23 | 33 12 6 | 16 36 54 | 8 18 02 | 21 56 8 16 | 17 | 12 | 29 53 | 8 29 16 29 | 2 58 | 3 02 | 14 19 30 | 8 27 11 23 |
| 12 33 34 | 9 29 16 29 | 3 30 | 3 10 | 14 22 23 | 9 27 12 24 | 34 12 6 | 16 45 07 | 9 08 02 | 22 02 8 16 | 18 | 12 | 33 34 | 9 29 16 29 | 3 30 | 3 10 | 14 22 23 | 9 27 12 24 |
| 12 37 14 | 10 29 16 29 | 4 21 | 4 11 | 14 25 16 | 10 27 13 25 | 35 12 6 | 16 53 20 | 10 08 02 | 22 08 8 16 | 19 | 12 | 37 14 | 10 29 16 29 | 4 21 | 4 11 | 14 25 16 | 10 27 13 25 |
| 12 40 54 | 11 29 16 29 | 5 12 | 4 42 | 14 28 09 | 11 27 14 26 | 36 12 6 | 17 01 33 | 11 08 02 | 22 14 8 16 | 20 | 12 | 40 54 | 11 29 16 29 | 5 12 | 4 42 | 14 28 09 | 11 27 14 26 |
| 12 44 34 | 12 29 16 29 | 6 03 | 5 13 | 14 31 02 | 12 27 15 27 | 37 12 6 | 17 09 46 | 12 08 02 | 22 20 8 16 | 21 | 12 | 44 34 | 12 29 16 29 | 6 03 | 5 13 | 14 31 02 | 12 27 15 27 |
| 12 48 14 | 13 29 16 29 | 6 54 | 6 04 | 14 33 55 | 13 27 16 28 | 38 12 6 | 17 17 59 | 13 08 02 | 22 26 8 16 | 22 | 12 | 48 14 | 13 29 16 29 | 6 54 | 6 04 | 14 33 55 | 13 27 16 28 |
| 12 51 54 | 14 29 16 29 | 7 45 | 6 15 | 14 36 48 | 14 27 17 29 | 39 12 6 | 17 26 12 | 14 08 02 | 22 32 8 16 | 23 | 12 | 51 54 | 14 29 16 29 | 7 45 | 6 15 | 14 36 48 | 14 27 17 29 |
| 12 55 34 | 15 29 16 29 | 8 36 | 7 26 | 14 39 41 | 15 27 18 30 | 40 12 6 | 17 34 25 | 15 08 02 | 22 38 8 16 | 24 | 12 | 55 34 | 15 29 16 29 | 8 36 | 7 26 | 14 39 41 | 15 27 18 30 |
| 12 59 14 | 16 29 16 29 | 9 27 | 8 37 | 14 42 34 | 16 27 19 31 | 41 12 6 | 17 42 38 | 16 08 02 | 22 44 8 16 | 25 | 12 | 59 14 | 16 29 16 29 | 9 27 | 8 37 | 14 42 34 | 16 27 19 31 |
| 13 0 29 | 17 29 16 29 | 10 18 | 9 48 | 14 45 27 | 17 27 20 32 | 42 12 6 | 17 50 51 | 17 08 02 | 22 50 8 16 | 26 | 12 | 0 29 | 17 29 16 29 | 10 18 | 9 48 | 14 45 27 | 17 27 20 32 |
| 13 4 9 | 18 29 16 29 | 11 09 | 10 59 | 14 48 20 | 18 27 21 33 | 43 12 6 | 17 59 04 | 18 08 02 | 22 56 8 16 | 27 | 12 | 4 9 | 18 29 16 29 | 11 09 | 10 59 | 14 48 20 | 18 27 21 33 |
| 13 7 49 | 19 29 16 29 | 12 00 | 11 10 | 14 51 13 | 19 27 22 34 | 44 12 6 | 18 07 17 | 19 08 02 | 23 02 8 16 | 28 | 12 | 7 49 | 19 29 16 29 | 12 00 | 11 10 | 14 51 13 | 19 27 22 34 |
| 13 11 29 | 20 29 16 29 | 12 51 | 12 21 | 14 54 06 | 20 27 23 35 | 45 12 6 | 18 15 30 | 20 08 02 | 23 08 8 16 | 29 | 12 | 11 29 | 20 29 16 29 | 12 51 | 12 21 | 14 54 06 | 20 27 23 35 |
| 13 15 09 | 21 29 16 29 | 13 42 | 13 32 | 14 56 59 | 21 27 24 36 | 46 12 6 | 18 23 43 | 21 08 02 | 23 14 8 16 | 30 | 12 | 15 09 | 21 29 16 29 | 13 42 | 13 32 | 14 56 59 | 21 27 24 36 |
| 13 18 49 | 22 29 16 29 | 14 33 | 14 43 | 14 59 52 | 22 27 25 37 | 47 12 6 | 18 31 56 | 22 08 02 | 23 20 8 16 | 31 | 12 | 18 49 | 22 29 16 29 | 14 33 | 14 43 | 14 59 52 | 22 27 25 37 |
| 13 22 29 | 23 29 16 29 | 15 24 | 15 54 | 15 02 45 | 23 27 26 38 | 48 12 6 | 18 40 09 | 23 08 02 | 23 26 8 16 | 32 | 12 | 22 29 | 23 29 16 29 | 15 24 | 15 54 | 15 02 45 | 23 27 26 38 |
| 13 26 09 | 24 29 16 29 | 16 15 | 16 45 | 15 05 38 | 24 27 27 39 | 49 12 6 | 18 48 22 | 24 08 02 | 23 32 8 16 | 33 | 12 | 26 09 | 24 29 16 29 | 16 15 | 16 45 | 15 05 38 | 24 27 27 39 |
| 13 29 49 | 25 29 16 29 | 17 06 | 17 36 | 15 08 31 | 25 27 28 40 | 50 12 6 | 18 56 35 | 25 08 02 | 23 38 8 16 | 34 | 12 | 29 49 | 25 29 16 29 | 17 06 | 17 36 | 15 08 31 | 25 27 28 40 |
| 13 33 29 | 26 29 16 29 | 17 57 | 18 27 | 15 11 24 | 26 27 29 41 | 51 12 6 | 19 04 48 | 26 08 02 | 23 44 8 16 | 35 | 12 | 33 29 | 26 29 16 29 | 17 57 | 18 27 | 15 11 24 | 26 27 29 41 |
| 13 37 09 | 27 29 16 29 | 18 48 | 19 18 | 15 14 17 | 27 27 30 42 | 52 12 6 | 19 13 01 | 27 08 02 | 23 50 8 16 | 36 | 12 | 37 09 | 27 29 16 29 | 18 48 | 19 18 | 15 14 17 | 27 27 30 42 |
| 13 40 49 | 28 29 16 29 | 19 39 | 20 09 | 15 17 10 | 28 27 31 43 | 53 12 6 | 19 21 14 | 28 08 02 | 23 56 8 16 | 37 | 12 | 40 49 | 28 29 16 29 | 19 39 | 20 09 | 15 17 10 | 28 27 31 43 |
| 13 44 29 | 29 29 16 29 | 20 30 | 20 30 | 15 20 03 | 29 27 32 44 | 54 12 6 | 19 29 27 | 29 08 02 | 24 02 8 16 | 38 | 12 | 44 29 | 29 29 16 29 | 20 30 | 20 30 | 15 20 03 | 29 27 32 44 |
| 13 48 09 | 30 29 16 29 | 21 21 | 21 21 | 15 22 56 | 30 27 33 45 | 55 12 6 | 19 37 40 | 30 08 02 | 24 08 8 16 | 39 | 12 | 48 09 | 30 29 16 29 | 21 21 | 21 21 | 15 22 56 | 30 27 33 45 |
| 13 51 49 | 31 29 16 29 | 22 12 | 22 12 | 15 25 49 | 31 27 34 46 | 56 12 6 | 19 45 53 | 31 08 02 | 24 14 8 16 | 40 | 12 | 51 49 | 31 29 16 29 | 22 12 | 22 12 | 15 25 49 | 31 27 34 46 |
| 13 55 29 | 32 29 16 29 | 23 03 | 23 03 | 15 28 42 | 32 27 35 47 | 57 12 6 | 19 54 06 | 32 08 02 | 24 20 8 16 | 41 | 12 | 55 29 | 32 29 16 29 | 23 03 | 23 03 | 15 28 42 | 32 27 35 47 |
| 13 59 09 | 33 29 16 29 | 23 54 | 23 54 | 15 31 35 | 33 27 36 48 | 58 12 6 | 20 02 19 | 33 08 02 | 24 26 8 16 | 42 | 12 | 59 09 | 33 29 16 29 | 23 54 | 23 54 | 15 31 35 | 33 27 36 48 |
| 14 0 29 | 34 29 16 29 | 24 45 | 24 45 | 15 34 28 | 34 27 37 49 | 59 12 6 | 20 10 32 | 34 08 02 | 24 32 8 16 | 43 | 12 | 0 29 | 34 29 16 29 | 24 45 | 24 45 | 15 34 28 | 34 27 37 49 |
| 14 4 9 | 35 29 16 29 | 25 36 | 25 36 | 15 37 21 | 35 27 38 50 | 60 12 6 | 20 18 45 | 35 08 02 | 24 38 8 16 | 44 | 12 | 4 9 | 35 29 16 29 | 25 36 | 25 36 | 15 37 21 | 35 27 38 50 |
| 14 7 49 | 36 29 16 29 | 26 27 | 26 27 | 15 40 14 | 36 27 39 51 | 61 12 6 | 20 26 58 | 36 08 02 | 24 44 8 16 | 45 | 12 | 7 49 | 36 29 16 29 | 26 27 | 26 27 | 15 40 14 | 36 27 39 51 |
| 14 11 29 | 37 29 16 29 | 27 18 | 27 18 | 15 43 07 | 37 27 40 52 | 62 12 6 | 20 35 11 | 37 08 02 | 24 50 8 16 | 46 | 12 | 11 29 | 37 29 16 29 | 27 18 | 27 18 | 15 43 07 | 37 27 40 52 |
| 14 15 09 | 38 29 16 29 | 28 09 | 28 09 | 15 46 00 | 38 27 41 53 | 63 12 6 | 20 43 24 | 38 08 02 | 24 56 8 16 | 47 | 12 | 15 09 | 38 29 16 29 | 28 09 | 28 09 | 15 46 00 | 38 27 41 53 |
| 14 18 49 | 39 29 16 29 | 29 00 | 29 00 | 15 48 53 | 39 27 42 54 | 64 12 6 | 20 51 37 | 39 08 02 | 25 02 8 16 | 48 | 12 | 18 49 | 39 29 16 29 | 29 00 | 29 00 | 15 48 53 | 39 27 42 54 |
| 14 22 29 | 40 29 16 29 | 29 51 | 29 51 | 15 51 46 | 40 27 43 55 | 65 12 6 | 20 59 50 | 40 08 02 | 25 08 8 16 | 49 | 12 | 22 29 | 40 29 16 29 | 29 51 | 29 51 | 15 51 46 | 40 27 43 55 |
| 14 26 09 | 41 29 16 29 | 30 42 | 30 42 | 15 54 39 | 41 27 44 56 | 66 12 6 | 21 08 03 | 41 08 02 | 25 14 8 16 | 50 | 12 | 26 09 | 41 29 16 29 | 30 42 | 30 42 | 15 54 39 | 41 27 44 56 |
| 14 29 49 | 42 29 16 29 | 31 33 | 31 33 | 15 57 32 | 42 27 45 57 | 67 12 6 | 21 16 16 | 42 08 02 | 25 20 8 16 | 51 | 12 | 29 49 | 42 29 16 29 | 31 33 | 31 33 | 15 57 32 | 42 27 45 57 |
| 14 33 29 | 43 29 16 29 | 32 24 | 32 24 | 16 00 25 | 43 27 46 58 | 68 12 6 | 21 24 29 | 43 08 02 | 25 26 8 16 | 52 | 12 | 33 29 | 43 29 16 29 | 32 24 | 32 24 | 16 00 25 | 43 27 46 58 |
| 14 37 09 | 44 29 16 29 | 33 15 | 33 15 | 16 03 18 | 44 27 47 59 | 69 12 6 | 21 32 42 | 44 08 02 | 25 32 8 16 | 53 | 12 | 37 09 | 44 29 16 29 | 33 15 | 33 15 | 16 03 18 | 44 27 47 59 |
| 14 40 49 | 45 29 16 29 | 34 06 | 34 06 | 16 06 11 | 45 27 48 60 | 70 12 6 | 21 40 55 | 45 08 02 | 25 38 8 16 | 54 | 12 | 40 49 | 45 29 16 29 | 34 06 | 34 06 | 16 06 11 | 45 27 48 60 |
| 14 44 29 | 46 29 16 29 | 34 57 | 34 57 | 16 09 04 | 46 27 49 61 | 71 12 6 | 21 49 08 | 46 08 02 | 25 44 8 16 | 55 | 12 | 44 29 | 46 29 16 29 | 34 57 | 34 57 | 16 09 04 | 46 27 49 61 |
| 14 48 09 | 47 29 16 29 | 35 48 | 35 48 | 16 11 57 | 47 27 50 62 | 72 12 6 | 21 57 21 | 47 08 02 | 25 50 8 16 | 56 | 12 | 48 09 | 47 29 16 29 | 35 48 | 35 48 | 16 11 57 | 47 27 50 62 |
| 14 51 49 | 48 29 16 29 | 36 39 | 36 39 | 16 14 50 | 48 27 51 63 | 73 12 6 | 22 05 34 | 48 08 02 | 25 56 8 16 | 57 | 12 | 51 49 | 48 29 16 29 | 36 39 | 36 39 | 16 14 50 | 48 27 51 63 |
| 14 55 29 | 49 29 16 29 | 37 30 | 37 30 | 16 17 43 | 49 27 52 64 | 74 12 6 | 22 13 47 | 49 08 02 | 26 02 8 16 | 58 | 12 | 55 29 | 49 29 16 29 | 37 30 | 37 30 | 16 17 43 | 49 27 52 64 |
| 14 59 09 | 50 29 16 29 | 38 21 | 38 21 | 16 20 36 | 50 27 53 65 | 75 12 6 | 22 22 00 | 50 08 02 | 26 08 8 16 | 59 | 12 | 59 09 | 50 29 16 29 | 38 21 | 38 21 | 16 20 36 | 50 27 53 65 |
| 15 0 29 | 51 29 16 29 | 39 12 | 39 12 | 16 23 29 | 51 27 54 66 | 76 12 6 | 22 30 13 | 51 08 02 | 26 14 8 16 | 60 | 12 | 0 29 | 51 29 16 29 | 39 12 | 39 12 | 16 23 29 | 51 27 54 66 |
| 15 4 9 | 52 29 16 29 | 40 03 | 40 03 | 16 26 22 | 52 27 55 67 | 77 12 6 | 22 38 26 | 52 08 02 | 26 20 8 16 | 61 | 12 | 4 9 | 52 29 16 29 | 40 03 | 40 03 | 16 26 22 | 52 27 55 67 |
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|--------------------------|--------|--------|-------|-------|-------|--------|--------|---------|--------|--------------------------|--------|--------|-------|-------|-------|--------|--------|--------|---------|--------------------------|--------|--------|-------|--------|------|--------|--------|--------|-------|---------|-------|-----|----|----|
| Time. | h | m | s | ° | ' | ° | ' | ° | ' | Time. | h | m | s | ° | ' | ° | ' | ° | ' | Time. | h | m | s | ° | ' | ° | ' | ° | ' | | | | | |
| 151.38 | 014.23 | 39 | 7.98 | 3.51 | 18 | 012.15 | 9 | 30.28 | 24 | 151.38 | 014.23 | 39 | 7.98 | 3.51 | 18 | 012.15 | 9 | 30.28 | 24 | 151.38 | 014.23 | 39 | 7.98 | 3.51 | 18 | 012.15 | 9 | 30.28 | 24 | | | | | |
| 1.55 | 28 | 115.24 | 16 | 7.90 | 3.56 | 28 | 112.16 | 10 | 20.26 | 1.55 | 28 | 115.24 | 16 | 7.90 | 3.56 | 28 | 112.16 | 10 | 20.26 | 1.55 | 28 | 115.24 | 16 | 7.90 | 3.56 | 28 | 112.16 | 10 | 20.26 | | | | | |
| 0.70 | 20 | 217.15 | 28 | 61.8 | 3.69 | 37 | 213.17 | 10 | 49.28 | 0.70 | 20 | 217.15 | 28 | 61.8 | 3.69 | 37 | 213.17 | 10 | 49.28 | 0.70 | 20 | 217.15 | 28 | 61.8 | 3.69 | 37 | 213.17 | 10 | 49.28 | | | | | |
| 0.11 | 1.31 | 3.5 | 43.19 | 6 | 2.3 | 8 | 317.22 | 27 | 1.27 | 0.11 | 1.31 | 3.5 | 43.19 | 6 | 2.3 | 8 | 317.22 | 27 | 1.27 | 0.11 | 1.31 | 3.5 | 43.19 | 6 | 2.3 | 8 | 317.22 | 27 | 1.27 | | | | | |
| 0.13 | 41 | 417 | 3 | 18.19 | 7 | 0 | 418.26 | 3 | 0.2 | 0.13 | 41 | 417 | 3 | 18.19 | 7 | 0 | 418.26 | 3 | 0.2 | 0.13 | 41 | 417 | 3 | 18.19 | 7 | 0 | 418.26 | 3 | 0.2 | | | | | |
| 0.18 | 21 | 618 | 4 | 5.64 | 20 | 2 | 620.27 | 33 | 40.10 | 0.18 | 21 | 618 | 4 | 5.64 | 20 | 2 | 620.27 | 33 | 40.10 | 0.18 | 21 | 618 | 4 | 5.64 | 20 | 2 | 620.27 | 33 | 40.10 | | | | | |
| 0.22 | 2.61 | 9 | 29.21 | 9 | 2.14 | 43 | 619.27 | 33 | 40.10 | 0.22 | 2.61 | 9 | 29.21 | 9 | 2.14 | 43 | 619.27 | 33 | 40.10 | 0.22 | 2.61 | 9 | 29.21 | 9 | 2.14 | 43 | 619.27 | 33 | 40.10 | | | | | |
| 0.25 | 42 | 720 | 6 | 7.62 | 10 | 28 | 37 | 720.28 | 33 | 12 | 4 | 720.28 | 33 | 12 | 4 | 720.28 | 33 | 12 | 4 | 720.28 | 33 | 12 | 4 | 720.28 | 33 | 12 | 4 | 720.28 | 33 | 12 | | | | |
| 0.28 | 23 | 821 | 7 | 7.40 | 22 | 22 | 31 | 821.20 | 26 | 30.12 | 0.28 | 23 | 821 | 7 | 7.40 | 22 | 31 | 821.20 | 26 | 30.12 | 0.28 | 23 | 821 | 7 | 7.40 | 22 | 31 | 821.20 | 26 | 30.12 | | | | |
| 0.33 | 41 | 922 | 7 | 8.15 | 23 | 11 | 26 | 28 | 922.30 | 71.3 | 0.33 | 41 | 922 | 7 | 8.15 | 23 | 11 | 26 | 28 | 922.30 | 71.3 | 0.33 | 41 | 922 | 7 | 8.15 | 23 | 11 | 26 | 28 | | | | |
| 0.38 | 45 | 1023 | 8 | 8.50 | 23 | 11 | 26 | 28 | 922.30 | 71.3 | 0.38 | 45 | 1023 | 8 | 8.50 | 23 | 11 | 26 | 28 | 922.30 | 71.3 | 0.38 | 45 | 1023 | 8 | 8.50 | 23 | 11 | 26 | 28 | | | | |
| 0.40 | 27 | 1124 | 9 | 9.25 | 24 | 12 | 24 | 1124.27 | 21.14 | 7 | 0.40 | 27 | 1124 | 9 | 9.25 | 24 | 12 | 24 | 1124.27 | 21.14 | 7 | 0.40 | 27 | 1124 | 9 | 9.25 | 24 | 12 | 24 | 1124.27 | | | | |
| 0.44 | 8 | 1212 | 10 | 9.58 | 24 | 13 | 28 | 1212.32 | 38.16 | 8 | 0.44 | 8 | 1212 | 10 | 9.58 | 24 | 13 | 28 | 1212.32 | 38.16 | 8 | 0.44 | 8 | 1212 | 10 | 9.58 | 24 | 13 | 28 | 1212.32 | | | | |
| 0.47 | 60 | 1327 | 10 | 10.28 | 25 | 14 | 42 | 1327.38 | 38.16 | 8 | 0.47 | 60 | 1327 | 10 | 10.28 | 25 | 14 | 42 | 1327.38 | 38.16 | 8 | 0.47 | 60 | 1327 | 10 | 10.28 | 25 | 14 | 42 | 1327.38 | | | | |
| 0.51 | 41 | 2811 | 11 | 11.20 | 15 | 15 | 61 | 2811.28 | 11.11 | 11 | 0.51 | 41 | 2811 | 11 | 11.20 | 15 | 15 | 61 | 2811.28 | 11.11 | 11 | 0.51 | 41 | 2811 | 11 | 11.20 | 15 | 15 | 61 | 2811.28 | | | | |
| 0.56 | 14 | 1629 | 12 | 11.48 | 27 | 18 | 2.60 | 915.98 | 429 | 61.17 | 11 | 0.56 | 14 | 1629 | 12 | 11.48 | 27 | 18 | 2.60 | 915.98 | 429 | 61.17 | 11 | 0.56 | 14 | 1629 | 12 | 11.48 | 27 | 18 | | | | |
| 0.58 | 57 | 1619 | 13 | 12.12 | 17 | 2.54 | 716.62 | 6 | 0.98 | 28.18 | 12 | 0.58 | 57 | 1619 | 13 | 12.12 | 17 | 2.54 | 716.62 | 6 | 0.98 | 28.18 | 12 | 0.58 | 57 | 1619 | 13 | 12.12 | 17 | 2.54 | | | | |
| 1 | 2 | 40 | 17 | 13.12 | 62.20 | 18 | 2.58 | 817.55 | 6 | 1.61 | 13 | 1 | 2 | 40 | 17 | 13.12 | 62.20 | 18 | 2.58 | 817.55 | 6 | 1.61 | 13 | 1 | 2 | 40 | 17 | 13.12 | 62.20 | 18 | | | | |
| 1 | 2 | 40 | 17 | 13.12 | 62.20 | 18 | 3 | 2 | 818 | 1 | 6 | 1 | 2 | 40 | 17 | 13.12 | 62.20 | 18 | 3 | 2 | 818 | 1 | 6 | 1 | 2 | 40 | 17 | 13.12 | 62.20 | 18 | | | | |
| 1 | 10 | 719 | 3 | 15.14 | 72.19 | 19 | 3 | 6 | 10 | 220 | 2 | 7 | 1 | 10 | 719 | 3 | 15.14 | 72.19 | 19 | 3 | 6 | 10 | 220 | 2 | 7 | 1 | 10 | 719 | 3 | 15.14 | 72.19 | | | |
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| 1 | 17 | 86 | 2 | 16.18 | 18 | 121 | 3 | 14 | 18 | 21 | 8 | 1 | 17 | 86 | 2 | 16.18 | 18 | 121 | 3 | 14 | 18 | 21 | 8 | 1 | 17 | 86 | 2 | 16.18 | 18 | 121 | | | | |
| 1 | 21 | 22 | 8 | 17.15 | 63 | 122 | 4 | 18 | 10 | 22 | 4 | 1 | 21 | 22 | 8 | 17.15 | 63 | 122 | 4 | 18 | 10 | 22 | 4 | 1 | 21 | 22 | 8 | 17.15 | 63 | 122 | | | | |
| 1 | 26 | 623 | 7 | 18.18 | 28 | 22 | 3 | 22 | 24 | 23 | 6 | 10 | 1 | 26 | 623 | 7 | 18.18 | 28 | 22 | 3 | 22 | 24 | 23 | 6 | 10 | 1 | 26 | 623 | 7 | 18.18 | 28 | 22 | | |
| 1 | 32 | 624 | 8 | 19.17 | 4 | 323 | 3 | 30 | 35 | 25 | 8 | 11 | 1 | 32 | 624 | 8 | 19.17 | 4 | 323 | 3 | 30 | 35 | 25 | 8 | 11 | 1 | 32 | 624 | 8 | 19.17 | 4 | 323 | | |
| 1 | 38 | 25 | 9 | 19.17 | 40 | 824 | 3 | 38 | 35 | 25 | 9 | 14 | 1 | 38 | 25 | 9 | 19.17 | 40 | 824 | 3 | 38 | 35 | 25 | 9 | 14 | 1 | 38 | 25 | 9 | 19.17 | 40 | 824 | | |
| 1 | 38 | 25 | 9 | 19.17 | 40 | 824 | 3 | 38 | 35 | 25 | 9 | 14 | 1 | 38 | 25 | 9 | 19.17 | 40 | 824 | 3 | 38 | 35 | 25 | 9 | 14 | 1 | 38 | 25 | 9 | 19.17 | 40 | 824 | | |
| 1 | 40 | 13 | 11 | 20.18 | 15 | 425 | 3 | 38 | 42 | 26 | 8 | 12 | 1 | 40 | 13 | 11 | 20.18 | 15 | 425 | 3 | 38 | 42 | 26 | 8 | 12 | 1 | 40 | 13 | 11 | 20.18 | 15 | 425 | | |
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| 1 | 47 | 49 | 20 | 23.22 | 20 | 3 | 3 | 47 | 49 | 20 | 13 | 14 | 1 | 47 | 49 | 20 | 23.22 | 20 | 3 | 3 | 47 | 49 | 20 | 13 | 14 | 1 | 47 | 49 | 20 | 23.22 | 20 | 3 | 3 | |
| 1 | 51 | 38 | 30 | 24.23 | 39 | 728 | 3 | 51 | 38 | 30 | 14 | 23 | 3 | 51 | 38 | 30 | 24.23 | 39 | 728 | 3 | 51 | 38 | 30 | 14 | 23 | 3 | 51 | 38 | 30 | 24.23 | 39 | 728 | | |
| 2 | 2 | 6 | 15 | 25.12 | 3 | 27 | 6 | 2 | 6 | 15 | 25 | 12 | 3 | 2 | 6 | 15 | 25.12 | 3 | 27 | 6 | 2 | 6 | 15 | 25 | 12 | 3 | 2 | 6 | 15 | 25.12 | 3 | 27 | 6 | |
| 2 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26 |
| 2 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26 |
| 2 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26 |
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| 2 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26 |
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| 2 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26.13 | 2 | 29 | 6 | 2 | 6 | 21 | 47 | 26 | 13 | 2 | 29 | 6 | 21 | 47 | 26 |
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| 2 | 6 | 21 | 47 | 26.13 | 2 | 29</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---------------|----------|-------|-------|----------|-------|-------|---------------|----------|-------|-------|----------|-------|-------|---------------|----------|-------|-------|----------|-------|-------|
| H. M. S. | ° | ' | '' | ° | ' | '' | H. M. S. | ° | ' | '' | ° | ' | '' | H. M. S. | ° | ' | '' | ° | ' | '' |
| 12 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 12 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 12 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 |
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| 12 36 40 | 10 12 10 | 11 52 | 10 6 | 10 12 10 | 11 52 | 10 6 | 12 36 40 | 10 12 10 | 11 52 | 10 6 | 10 12 10 | 11 52 | 10 6 | 12 36 40 | 10 12 10 | 11 52 | 10 6 | 10 12 10 | 11 52 | 10 6 |
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|-----------------------------------|----------|-------|-------|----------|-------|-------|-----------------------------------|----------|-------|-------|----------|-------|-------|-----------------------------------|----------|-------|-------|----------|-------|-------|
| H. M. S. | ° | ' | '' | ° | ' | '' | H. M. S. | ° | ' | '' | ° | ' | '' | H. M. S. | ° | ' | '' | ° | ' | '' |
| 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 |
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